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LAS CRUCES DISTRICT LAS CRUCES NH 80905

GEOTHERMAL LEASE NM 34790 SECTION 7, TOWNSHIP 25 SOUTH, RANGE 19 WEST S2N2, SE4, E2SW4 HIDALGO COUNTY, NEW MEXICO

BURGETT INVESTMENT, INC., OPERATOR BOX 265-A, ANIMAS, NEW MEXICO 88020

GREENHOUSE OPERATION USING GEOTHERMAL FOR HEATING TO GROW ROSES

PLAN OF OPERATION

- I. Maps
 - A. Scaled Drawings of Operations
 - B. Geographical Topographic Map
- II. Wells
 - A. Identification of Wells
 - B. Monitoring
 - C. Collecting Data
- III. Greenhouses
 - A. Identification
 - B. Construction
 - C. Square Footage
- III. Narrative Statement

SWALLOW FORK PEAK QUADRANGLE NEW MEXICO-HIDALGO CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) 210 000 FEET | 710 450 000 FEET CCC Tank 3567 Mansfield 3566 12'30" 3565

WELL DESCRIPTION

No.	1	A-36-A

Well is 2567 feet south and 780 feet east from the N4 corner of Section 7, T. 25 S., R. 19 W. Drilled in November 1948. This well was an exploratory irrigation well drilled to the depth of 85 feet and has a 12" conductor pipe that reduces to 8" at the hole. This well is a geothermal well and is not in use at this time.

No. 2 A-36-B

Well is 2368 feet south and 1131 feet east from the N4 corner of Section 7, T 25 S., R. 19 W. Drilled in 1948 to a depth of 95 feet and deepened by Burgett in 1983 to a depth of 225 feet with a pilot hole. It has 100 feet of 8" casing. This well is being used. It is a geothermal well. This well is used to head greenhouses #1 and #2.

No. 3 A-36-AB-S

Well is located 2570 feet south and 646 feet east of the N4 corner, Section 7, T 25 S., R. 19 W. This well was drilled by Burgett in 1979 to a depth of 115 feet and has 90 feet of 8" casing. This is a geothermal well and is not in use at this time.

No. 4 A-36-AB-S-2

Well is located 3837 feet south and 2593 feet east from the N4 corner of Section 7, T 25 S., R 19 W. This well was drilled by Burgett in 1978 to a depth of 125 feet and has 8" casing to a depth of 90 feet. This is a cold water well and is not is use.

No. 5 A-36-AB-S-3

Well is located 2102 feet south and 388 feet east from the N4 corner of Section 7, T. 25 S., R. 19 W. This well was drilled in 1980 to a depth of 225 feet by Burgett and is cased in 8" casing for 100 feet. Well is equipped with a 200 GPM Turbine pump and is being used for Greenhouse #1 and #2. It is a geothermal well.

- No. 6 A-36-AB-S-4 Well is located 2558 feet south and 1235 east of the N4 corner of Section 7, T. 25 S., R. 19 W. This well was drilled in 1948 to a depth of 90 feet. Well is cased with 85 feet of 12" and 90 feet of 10" inside 12". Well is not in use and is a geothermal well.
- No. 7 A-36-AB-S-5 Well is located 2579 feet south and 505 feet east of the N4 corner of Section 7, T. 25 S., R. 19 W. Drilled in 1983 by Burgett to a depth of 550 feet. Well is cased with 8" casing to 150 feet, with 6" casing 100 feet. Well is equipped with a 250 GPM Turbine pump. In 1993 the well was test pumped. Well is not in use and is a geothermal well.
- No. 8 A-36-AB-S-6 Well is located 3067 feet south and 625 feet east of the N4 corner of Section 7, T. 25 S., R. 19 W. Drilled in 1983 by Burgett to a depth of 275 feet and is cased with 8" casing to a depth of 100 feet. This well is a geothermal well and is in use at this time. It is equipped with a 350 GPM Turbine pump. It is used to heat greenhouses #3, #4, and #5.
- No. 9 A-36-AB-S-7 Well is located 3351 feet south and 1020 feet east from the N4 corner of Section 7, T. 25 S., R. 19 W. Well was drilled by Burgett in 1984 to a depth of 130 feet and 8" casing to 100 feet. Well is a geothermal well and is not being used.
- No. 10 A-36-AB-S-8 Well is located 2941 feet south and 1001 east from the N4 corner of Section 7, T. 25 S., R. 19 W. Well was drilled by Burgett in 1984 to a depth of 175 feet and cased with 8" casing to 100 feet and equipped with a 250 GPM Turbine pump. This well is a geothermal well and is in use all the time. It is used for Greenhouse #4, #5, #6 and #7.
- No. 11 A-36-AB-S-12 Well is located 2571 feet south and 240 feet east from the N4 corner of Section 7, T. 25 S., R. 19 W. Well was drilled by Oasis Drilling in 1982 to a depth of 125 feet and cased with 8" casing to 100 feet. This well is not used, the water is not hot enough. Not classed as a geothermal well.

No. 12	A-36-AB-S-13	Well is located 2594 feet south and 225 feet west of the N4 corner of Section 7, T. 25 S., R 19 W. Well was drilled by Burgett in 1983 to a depth of 275 feet and cased with 8" casing to 150 feet. This well is a dry hole, there is no water and not used.
No. 13	A-64	Well is located 4102 feet south and 140 feet west from the N4 corner of Section 7, T. 25 S., R. 19 W. Well was drilled by Folk in 1940 to a depth of 250 feet. This well is rated at 1000 GPM and has a Turbine pump without motor, not in use and has not been pumped in ten (10) years.
No. 14	A-65-A	Well is located 5215 feet south and 122 feet west of the N4 of Section 7, T. 25 S., R. 19 W. Drilled by Folk in March 1951 to a depth of 150 feet. It has a 250 GPM Turbine pump. Not in use and has not been used in ten (10) years.
No. 15	A-65-AS	Well is located 2621 feet south and 2004 feet west from the N4 corner of Section 7, T. 25 S., R. 19 W. Drilled by Folk in 1959 for irrigation well. Has 1000 GPM Turbine pump. Not in use. Has not been pumped in ten (10) years.
No. 16	A-231	Well is located 2548 feet south and 1118 feet west from the N4 of Section 7, T. 25 S., R. 19 W. Folk irrigation well drilled in 1957 to a depth of 126 feet and cased with 6" casing. Well not in use. Is not a geothermal well.
No. 17	A-45	Well is located 1427 feet south and 112 feet east of the NW corner of Section 12, T. 25 S., R. 20 W. Well was drilled in 1984 by Burgett to a depth of 150 feet and cased with 6" PVC with a submergible pump. This is a fresh water well and is in use.

Well is located 1521 feet south and 165 feet east from the NW corner of Section

12, T. 25 S., R. 20 W. Drilled in 1984 by Burgett to a depth of 150 feet and cased with 6" PVC with a submergible

pump. This is a fresh water well and is in use.

No. 18 A-45-S-2

No. 19	A-45-S-3	Well is located 1541 feet south and 130 feet east of the NW Corner of Section 12, T. 25 S., R. 20 W. Well was drilled in 1984 by Burgett to a depth of 150 feet and cased with 6" PVC with a submergible pump. This is a fresh water well and is in use.
No. 20	A-13-S	Well is located 1234 feet south and 3755 feet east from the NW corner of Section 13, T. 25 S., R. 20 W. No information on this well. It has a Turbine pump and 18" casing. Pumped for one (1) year. Not a geothermal well.
No. 21	A-13-S-3	Well is located 1292 feet south and 2930 feet east from the NW corner of Section 13, T. 25 S., R. 20 W. Well was drilled in 1940 and has a Turbine pump. Pumped one (1) year and is not in use at this time. No other information on this well. Not a geothermal well.
No. 22	A-59-A	Well is located 1292 feet south and 2930 feet east from the NW corner of Section 13, T. 25 S., R. 20 W. No information on this well. Not in use. Pumped one (1) year. Not a geothermal well.
No. 23	Proposed	Located 1373 feet south and 6540 feet east of the NW corner of Section 13, T. 25 S., R. 20 W. Test Well never drilled.
No. 24	A-51	Well is located 1391 feet south and 1223 feet east of the NW corner of Section 14, T. 25 S., R. 20 W. Well drilled by Burgett to a depth of 275 feet with 16" casing all the way and has a 60 HP submergible pump that pumps 1100 GPM. This well is in use all the time and is not a geothermal well. It is a fresh water well.
No. 25	A-53-S	Well is located 59 feet north and 240 feet west from the E4 corner of Section 10, T. 25 S., R. 20 W. This well is a irrigation well drilled in the 1950's with a pipe to the south. Fresh water and not a geothermal well.

No. 26 A-53

Well is located 88 feet north and 76 feet west from the E4 corner of Section 10, T. 25 S., R. 20 W. This is an irrigation well drilled in the 1950's with pipe to the south. Fresh water and not a geothermal well.

No. 27

Well is located 2918 feet south and 1519 feet east from the N4 corner of Section 7, T. 25 S., R. 19 W. Drilled in 1989 by Burgett to a depth of 151 feet and cased with 10" casing to 100 feet. Equipped with a 450 GPM Turbine pump. Well is a geothermal well and is used.

No. 55-7

The deep exploratory well was drilled by AMAX and it is capped. The Plugging Plan was approved in November 1985 with Steam Reserve Corporation as lessee/operator.

All wells are shown on the drawing with the exception of 20 through 26. These fall into two different sections that are privately owned and the wells are cold water irrigation type wells.

While some of these wells may be used as down hold heat exchangers, most of these wells are observation determining formation and hot water production.

PLAN OF UTILIZATION

- I. Description of Structures
 - A. Map of Facility Locations

(See drawing made of complete project)

- B. Purpose of Each Facility
 - 1. GREENHOUSES: To grow roses for commercial cut rose business.
 - GRADING/PACKING BUILDING: Roses are graded, packaged, refrigerated, and packed out for sale.
 - 3. STORAGE BUILDING: Boxes are stored and assembled along with holding other supplies as necessary.
 - 4. GENERATOR BUILDING: Houses generators and other equipment necessary for the physical plant.
 - 5. SHOP BUILDING: For equipment and vehicle repairs.
- C. Schematic Flow Diagram

(See attached drawing made of Schematic Flow Diagram)

- D. Schedule of Construction Activities
 - 1. Completion of Greenhouses #8 and #9 by November, 1993.
 - Anticipated construction of new grading/packing house within the next three years to be constructed to the south of the existing grading/packing building where mobile homes are now located.
 - 3. Anticipated construction or placement of mobile office building at an undecided location within next three years.

II. Reports

(See attached reports from State Engineers Office)

III. Tests

(See attached reports from Oil Conservation Department)

IV. Map of Roads

(See attached drawing of operation)

- V. Water Supply to be Utilized
 - A. Source: Water from geothermal wells are used to circulate in greenhouses.
 - B. Quality: Water from the hottest wells will be utilized.
 - C. Consumption Rate: 125 GPM to 400 GPM but not continuously.

VI. Waste Waters

A. Waste waters from geothermal wells are discharged to the west into a ditch for drinking water for livestock. It is considered potable water and has no saline.

VII. Environmental Protection

A. The water from the geothermal wells does not harm the environment because the water is either returned to the well or discharged into a ditch for livestock.

VIII. Monitoring Facility Operations

- A. Flow Meters: There are flow meters in all five geothermal wells being used.
- B: Monitoring Devices: Temperature sensors and totalizers in gallons and BTU using analogues.
- IX. Narrative Statement

NARRATIVE STATEMENT OF OPERATION

The greenhouse operation comprises of 1,029,949 square feet as of September 1993, with an expected total 1,374,111 square feet by November 1993.

The only crop is roses for wholesale business. The operation is confined to the greenhouses and grading/packing building. There is no outside growing.

A grading and packing building is located to the south of Greenhouse #1. The east side is for loading, the middle is the packing area that also contains three refrigeration room. The west side of the building is the grading room. There is a heat obsorbtion unit in this area, but is not hooked up nor is it being used. The room to the south is a large refrigeration room.

A mobile office sits next to the east side of the building. There is a shop building for equipment repair located to the east of the office.

There are approximately 100 employees monthly on site, some of whom live in the mobile homes to the south of the packing building and others to the east of the complex.

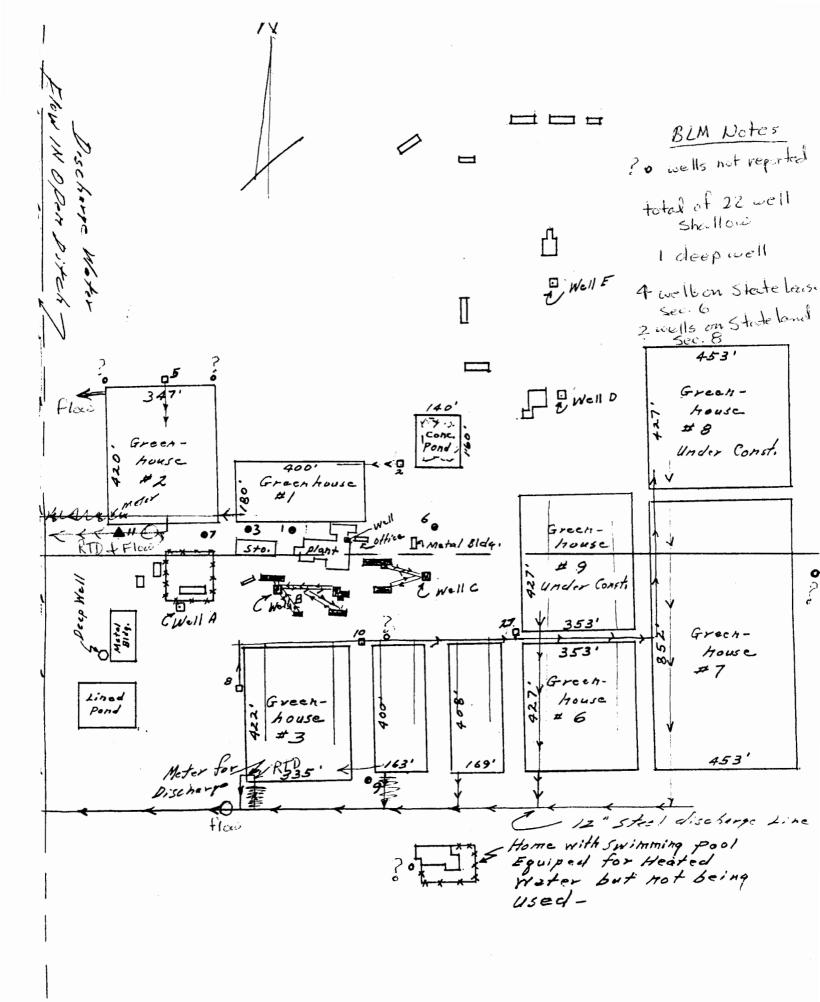
There are two prefab houses on the eastern edge of the complex. Neither use geothermal heat.

To the south of the complex is the home of Mr. and Mrs. Burgett, and to the west of the complex is the home of Mr. and Mrs. Malone.

There are portable sanitary facilities (toilets) for the workers positioned around the greenhouses. These facilities are supplied by a local company who services them.

A generator building is located on the west side of Greenhouse #3 and is used for switching electricity from local service to diesel generators for the complex.

The discharge of the water used to heat the greenhouses is done in a manner that minimizes any soil erosion. The water is discharged into a ditch and flows in such a manner that livestock uses it for drinking.

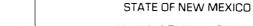


DESCRIPTION OF GREENHOUSES

Greenhouse #1 Completed: January 1978 Construction: Wood frame/Fiberglass 400 X 180 Size: Square Footage: 72,000 Greenhouse #2 Completed: December 1980 Construction: Steel Pipe/Fiberglass Size: 347 X 420 Square Footage: 145,740 Greenhouse #3 Completed: August 1985 Construction: Steel Pipe/Exolite Size: 335 X 422 Square Footage: 141,370 Greenhouse #4 Completed: August 1987 Construction: Steel Pipe/Exolite. Size: 163 X 400 Square Footage: 65,200 Completed: August 1988 Greenhouse #5 Construction: Steel Pipe/Glass 169 X 408 Size: Square Footage: 68,952 Greenhouse #6 Completed: November 1989 Construction: Steel Pipe/Exolite Size: 353 X 427 Square Footage: 150,731 Completed: January 1991 Greenhouse #7 Construction: Steel Pipe/Exolite Size: 453 X 852 Square Footage: 385,956 Greenhouse #8 Completed: November 1993 (Anticipated) Construction: Steel Pipe/Exolite Size: 453 X 427 Square Footage 193,431 Greenhouse #9 Completed: November 1993 (Anticipated) Construction: Steel Pipe/Exolite Size: 353 X 427 Square Footage 150,731

Total square footage in all greenhouses

1,374,111





ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

July 13, 1992

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

CERTIFIED MAIL | RETURN RECEIPT NO. P-667-241-869

Mr. Dale Burgett
Box 265 A
Animas, New Mexico 88020

RE: Notification of Cessation of Discharge
Burgett Greenhouse, Discharge Plan GW-41

Hidalgo County, New Mexico

Dear Mr. Burgett:

On April 16, 1987, the ground water discharge plan, GW-41 for the Burgett Greenhouse located in Section 7, Township 25 South, Range 19 West, NMPM Hidalgo County, New Mexico, was approved by the Director of the Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years or until April 16, 1992. In a letter dated August 7, 1991 the OCD notified Burgett Greenhouse that the discharge plan would expire on April 16, 1992, and that an application for renewal of the discharge plan was required prior to its expiration.

The discharge plan GW-41 has been expired for approximately three months and Burgett Greenhouse has failed to submit a discharge plan renewal application.

The OCD requires Burgett Greenhouse to cease all discharges immediately upon receipt of this letter. Operations may not recommence until a discharge plan renewal application is submitted to the OCD and Burgett Greenhouse receives OCD approval to restart operations. If you feel that a discharge plan is not required for your facility pursuant to WQCC regulation 3-105, then you must submit the necessary information to obtain an OCD approved exemption from the discharge plan requirement.

Mr. Dale Burgett July 13, 1992 Page 2

Please note that if operations do not cease immediately upon receipt of this letter then the Division may assess civil penalties of up to \$10,000 per day.

Numerous attempts have been made to contact you and discuss options available to avoid the situation above. If you have any questions concerning your discharge plan renewal or exemption, please contact Kathy M. Brown at (505) 827-5884.

Sincerely,

William J. LeMay

Director

xc: Roy Johnson, OCD Santa Fe Office

ENERGY AND MINERALS DEPARTMENT





GARREY CARRUTHERS
GOVERNOR

April 16, 1987

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

CERTIFIED MAIL RETURN FECEIPT REQUESTED

Mr. Dale Burgett
Box 265 A
Animas, New Mexico 88020

FE: Discharge Plan (CW-41)
Burgett Greenhouse
Animas, Hidalgo County

Dear Mr. Burgett:

The ground water discharge plan (GW-41) for the greenhouse located in Section 7, Township 25 South, Range 19 West, Hidalgo County, New Mexico, is hereby approved.

The approved discharge plan consists of the plan received January 5, 1987, and the lab analyses and information received January 28, 1986 and March 9, 1987.

The discharge plan was submitted pursuant to Section 3-106 of the New Mexico Water Quality Control Commission Regulations. It is approved pursuant to Section 3-109.F., which provides for the possible future amendments of the plan. Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters which may be actionable under other laws and/or regulations.

There will be no routine monitoring or reporting requirements other than those contained in the plan.

Please note that Section 3-104 of the regulations requires that "when a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3-107.C., you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any significant change in discharge water quality or volume.

Pursuant to Section 3-109.G.4, this plan approval is for a period of five (5) years. This approval will expire April 16, 1992 and you should submit an application for renewal in ample time before that date.

On behalf of the staff of the Oil Conservation Division, I wish to thank you for your cooperation during this discharge plan review.

Sincerely,

WILLIAM J. LEMAY

Director

WJL/JB/cr

cc: OCD - Roy Johnson

NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plans have been submitted for renewal or approval to the Director of the Oil Conservation Division, State Land Office Building, P. O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-6) El Paso Natural Gas Company, Washington Ranch Storage Project, John Bridges, Manager, Environmental Engineering, Box 1492, El Paso, Texas 79978, has submitted an application to renew the previously approved discharge plan for its facility located in Section 34, Township 25 South, Range 24 East (NMPM), Eddy County, New Mexico. Approximately 13,500 gallons per day of dehydrator waste water will be contained in above ground steel tanks prior to disposal in an OCD-approved contract injection well. The discharge plan addresses how spills, leaks and other discharges to ground water at the plant site will be managed. Ground water most likely to be affected by any discharge at the surface is at a depth of approximately 80 feet and has a total dissolved solids concentration of approximately 1475 mg/1.

(GW-41) Burgett Greenhouse, Dale Burgett, Box 265A, Animas, New Mexico 88020, has submitted for approval a ground water discharge plan for the facility located in Section 7, Township 25 South, Range 19 West, Hidalgo County, New Mexico. Approximately 150,000 gallons per day of cooled geothermal water with a total dissolved solids content of 1115 will be discharged during the winter months to irrigate farm land. No discharge is anticipated during summer months. Uppermost ground water is geothermal and has a TDS of 1195 at a depth of 60 feet.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN Under the Seal of the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 9th day of January, 1987. To be published on or before January 16, 1987.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

CHARLES ROYBAL Acting Director

STATE OF NEW MEXICO



GOVERNOR

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501-2088 (505) 827-5800

May 27, 1986

Mr. Dale Burgett Box 265A Animas, N.M. 88020

Dear Mr. Burgett:

Although a discharge plan is required for your greenhouse operation, much of the information required under WQCC regulation 3-106.C was obtained during our sampling trip in January. For your convenience in filing a discharge plan, I have enclosed an outline form along with the lab analyses of wells in the area. These analyses indicate the total dissolved solids (TDS) of ground water, which is required for the discharge plan.

Provided that the information listed on the outline is submitted to the Oil Conservation Division (even in short-answer form), and no changes have been made in the operation since our inspection, this discharge plan will be approved following public notice. Please feel free to contact me at 827-5884 if I can be of any assistance.

Sincerely,

JAMI BAILEY

Field Representative

JB:dp

Enc.

cc: Roy Johnson

I.	General Information									
	Α.	Name, Address and Telephone Number for Discharger or Legally Responsible Party:								
		responsible rate;								
	В.	Location of Discharge: Section, Township (North) (South), Range (East) (West)								
	C	Through Crowntion.								
	C.	Type of Operation:								
		•								
	_									
	D.	Affirmation:								
		"I hereby certify that I am familiar with the information contained in and submitted with this application and that such								
		information is true, accurate and complete to the best of my knowledge and belief."								
		(Signature) (Date)								
		(biginedic) (bace)								
		(Drinted Name of Dorgon Cigning) (Mitta)								
		(Printed Name of Person Signing) (Title)								
II.	Pla	nt Processes								
	Α.	Describe storage and uses of geothermal waters.								

B. Estimated quantities used in gallons per day (gpd).

C. Any additives or commingling.

III. Site Characteristics

A. Provide the name, description, and location of any ground water discharge sites (water wells, seeps, springs,) within one mile of the outside perimeter of the facility. For water wells, specify use of water (e.g., irrigation, domestic, etc.)

B. If known, provide the flow direction of the ground water most likely to be affected by the discharge. Include the source of the information and how was it determined.

C. Depth to rock at base of alluvium:

STATE OF NEW MEXICO



TONEY ANAYA

GOVERNOR

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501-2088 (505) 827-5800

May 15, 1986

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Dale Burgett Box 265A Animas, N.M. 88020

Dear Mr. Burgett:

Enclosed are copies of the water analyses from samples taken on January 28, 1986, by Roy Johnson and Jami Bailey. Included with the analyses is a copy of the New Mexico Water Quality Control Commission (WQCC) regulations on discharges and ground water standards.

Because of the fluoride concentration and the method of discharging the geothermal waters onto the surface of the ground, you are hereby notified that a discharge plan must be submitted and approved. This notification of discharge plan requirement is pursuant to Sections 3-104 and 3-106 of the WQCC regulations. The discharge plan defined in Section 1-101.P of the WQCC Regulations should cover all discharges of effluent or leachate at the greenhouse site or adjacent to the greenhouse site.

Section 3-106.A. of the regulations requires a submittal of the discharge plan within 120 days of receipt of this notice unless an extension of this time period is sought and approved for good cause. Section 3-106.A. also allows the discharge to continue without an approved discharge plan until 240 days after written notification by the director that a discharge plan is required. An extension of this time may be sought and approved for good cause.

If there are any questions on this matter, please feel free to call Jami Bailey or Dave Boyer at (505) 827-5884.

R. L. STAMETS

Director

Sincere

RLS:JB:dp

Enclosures

cc: Roy Johnson



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 2 /	01861	10. WC 562	USER CODE 5930	o □ 59600 [XX o	THER: 82	235		
Collection DATE / 28 86 Collection TIME		SITE INFORM- ►	Sample location B	urgett beo	THERM	7AL	WEL	٠.८
Collected by — Person/Agency BAILEY / Joh	NSON .	ATION	Collection site description	7 T255 R	19 W		955 LL 4E1	YALVE AT
SEND NM FINAL Sta REPORT San Attn:D	OIL CON te Land ta Fe, avid Bo	TAL BUREAU SERVATION DIV Office Bldg, NM 87501 yer	/ISION , PO Box 208		Station/ well code	E BUR		
SAMPLING CONDI	ump	Water level 57791	ric w.L. 65'	Discharge	DAC	Sample ty		
☐ Dipped ☐ T	•	DEPTH TO W	ATER 90'	300 gpr	מי			
pH (00400)		Conductivity (Uncor		Water Temp. (00010)	yg °C	Conductiv	ity at 25	°C (00094) µmho
SAMPLE FIELD TR No. of samples submitted	EATMEN	T — Check proper : Whole sample (Non-filtered)	r boxes	C-L4 Ab	ml H₂SO₄/l	_ added		
X NA: No acid ad								
ANALYTICAL RESU	JLTS from		Jnits Date analyzed	I F, NA			Units	Date analyzed
Conductivity (Correct 25°C (00095) Total non-filterable residue (suspended (00530) Other:	, 	μ	mho	∇ Calcium (00915)		7 4.3 85	mg/l _	270 2/18 2/20 2/18
.□ Other:				▼ Total filterable residue		95	-	3/13
				(dissolved) (70300)		0	_ mg/l _	7/18
NF, A-H₂SO₄ ☐ Nitrate-N + , Nitrate-I				X F F, A-H ₂ SO ₄	12.	5	المسجوب الأدام	2/37
total (00630) Ammonia-N total (00 Total Kjeldahl-N () Chemical oxygen demand (00340) Total organic carbon ()	610)	·	ng/l	☐ Nitrate-N + , Nitrate-N dissolved (00631) ☐ Ammonia-N dissolved (00608) ☐ Total Kjeldahl-N () ☐ Other:			mg/l _ mg/l _ mg/l _	
☐ Olher: ☐ Olher:				Analyst	Date Re	ported 4 36	Review	ed by
Laboratory remarks								
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			•	************************			



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE

. PF

HERVY METALS
GENERAL WATER CHEMISTRY
and NITROGEN ANALYSIS

Albuquerque, NM 87106 -- (505) 841-2555 XX OTHER: .. 82235 CODE 59300 59600 ĂĒCĒIVED SITE BURGETT GEOTHERMAL 128 186 INFORM-Callection TIME
0900 **ATION** 7 T255 R 19 W VALVE AT JOHNSON ENVIRONMENTAL BUREAU NM OIL CONSERVATION DIVISION SEND State Land Office Bldg, PO Box 2088 FINAL REPORT Santa Fe, NM 87501 Attn: David Bover Station/ well code DALE BURGETT SAMPLING CONDITIONS ⊋ Pump Water level STATIC W.L.65 Discharge Bailed Sample type 300 gpm Dipped Tap DEPTH TO WATER 90' Water Temp. (00010) pH (00400) Conductivity (Uncorrected) Conductivity at 25°C (00094) 8. 1 °C µmho umho 2900 49 Field comments 10HRS/ DAY TO HEAT GREENHOUSES. REPORTED 2501 WELL HEAD SAMPLE FIELD TREATMENT - Check proper boxes Filtered in field with Whole sample ※A: <del>2 m/H₂SO₂</del>/L added インO₂ C NF: submitted (Non-filtered) 0.45 µmembrane filter NA: No acid added Other-specify: ANALYTICAL RESULTS from SAMPLES NF. NA FA UNO Units Date analyzed F, NA Units Date analyzed Conductivity (Corrected) Calcium (00915) mg/l 25°C (00095) umbo Magnesium (00925) mg/l Sodium (00930) mg/l Total non-filterable Potassium (00935) mg/l residue (suspended) Bicarbonate (00440) mq/l (00530)mg/l Chloride (00940) mg/l 又 Other: I CAP SCAル Sulfate (00945) mg/l Ų, 区 Other: Se Total filterable residue (dissolved) (70300) mq/1□ Other: NF, A-H2SO4 F. A-H2 SO4 Nitrate-N+, Nitrate-N total (00630) mq/l □ Nitrate-N + Nitrate-N Ammonia-N total (00610) dissolved (00631) mq/l Total Kjeldahl-N Ammonia-N dissolved (00608) Chemical oxygen Total Kjeldahl-N demand (00340) mg/l mg/l Total organic carbon C Other: mg/l Other: Analyst Date Reported C Other: Laboratory remarks

Lab number: #	M 279	sample code: Burgett Leothernal Well
Date Submitted:	11.	Date Analyzed: 2/17/86
By: Bailey	-	Reviewed By: Ally
0		Date Reported: 4/18/86
Element IC	CAP VALUE (MG/L)	AA VALUE (MG/L)
Aluminum	۷٥.١	
Barium	40.	
Berylium	40.	<del></del>
Boron	0.5	·
Cadmium		<del></del>
Calcium	21.	· 
Chromium	40.	<del></del>
Cobalt	<0.1	
Copper		· ————————————————————————————————————
Iron	40.1	
Lead		
Magnesium	40.(	·
Manganese	40.05	<del></del>
Molybdenum	<u>~0.l</u>	<del></del>
Nickel	40.1	
Silicon	<u>75.</u>	
Silver	<u> </u>	<del></del>
Strontium	0.5	
Tin	40.1	
Vanadium	40.1	· · · · · · · · · · · · · · · · · · ·
Zinc	40.1	
Arsenic		0.011
Selenium		<0.005
Mercury		<del></del>



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 2	10/86 N	18 WC 560	USER 59300	о <u>59600</u> 💢 ОТ	HER: 822	35		
Collection DATE / 28 86		SITE INFORM-	Sample location					
Callection TIME 09/5		ATION	Collection site description			· · · · · · · · · · · · · · · · · · ·		
Collected by — Person/A		00.0	 		***************************************		***************************************	
1371-1-70°	, , , , , , , , , , , , , , , , , , ,		L					
SEND FINAL REPORT TO	NM OIL CONS State Land Santa Fe, I		/ISION , PO Box 2088	3				
Attn:	David_Bo	yer						
					Station/ well code			
SAMPLING COI	NDITIONS				Owner			
☐ Bailed	☐ Pump ☐ Tap	Water level		Discharge	,	Sample type		
pH (00400) {	3. /	Conductivity (Unco		Water Temp. (00010)	47°°C (	Conductivity at	25°C (00094) μmho	
Field comments	JATES	is eircul		ROUGH FIN	OPES	TO HER		
		·	9.7.5.44	<u></u>		<u> </u>	!	
S	FREEN HO	10367		,	***************************************		,	
SAMPLE FIELD	TREATMENT	T — Check prope	r boxes					
No. of samples submitted	/ ¥NF	Whole sample (Non-filtered)	F: Filtered in 0.45 µmer	field with	nl H₂SO₄/L	added		
				<del></del>				
🕱 NA: No acid	dadded 🗆 C	Other-specify:						
·		<del></del>				·		
X NA: No acid		SAMPLES	Units Date analyzed	i F, NA		Units	s Date analyzed	
ANALYTICAL R	ESULTS from	SAMPLES	Units Date analyzed	i F, NA	. 32.0	) mg/	2-10	
ANALYTICAL R NF, NA  Conductivity (C 25°C (00095)	esults from	1 SAMPLES	Units Date analyzed		32.0 4.88 203.0	7 mg/l	2-10	
ANALYTICAL R NF, NA  Conductivity (C 25°C (00095)  Total non-filteral residue (susper	esults from	n <b>SAMPLES</b>	(mho	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00936)  Bicarbonate (00440)	4.78 303.6 19.1 97	mg/l mg/l mg/l mg/l mg/l	2-10 "1 "1 "Z/18	
ANALYTICAL R NF, NA  Conductivity (C 25°C (00095)	esults from	n <b>SAMPLES</b>		Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00936)  Bicarbonate (00440)  Chloride (00940)	4.88 303.6 19.1 97 92	mg/l mg/l mg/l mg/l mg/l	2-10 11 1 1 1 1 1 2/20 2/20	
ANALYTICAL R NF, NA  Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other: Other:	esults from	n <b>SAMPLES</b>	(mho	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00936)  Bicarbonate (00440)	4.78 303.6 19.1 97 92 53	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 11 1 1 1 1 1 2/20 2/20	
ANALYTICAL R NF, NA  Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other:	esults from	n <b>SAMPLES</b>	(mho	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)	4,78 103.6 19.1 97 92 53	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 1 1 1 1 1/18 2/20 2//8	
ANALYTICAL R NF, NA  Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other: Other:	esults from	n <b>SAMPLES</b>	(mho	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue	4.78 303.6 19.1 97 92 53	mg/l mg/l mg/l mg/l	2-10 1 1 1 1 1/18 2/20 2//8	
ANALYTICAL R NF, NA  Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other: Other: Other:	esults from	n SAMPLES	(mho	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other: Cos	4,78 103.6 19.1 97 92 53	mg/l mg/l mg/l mg/l	2-10 1 1 1 1 1/18 2/20 2//8	
ANALYTICAL R NF, NA   Conductivity (C 25°C (00095)  □ Total non-filteral residue (susper (00530)  □ Other: □ Other: □ Other: □ Nitrate-N + , Nit total (00630) □ Ammonia-N total	esults from  orrected)  ble nded)  rate-N	n SAMPLES	mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other: COS	4,78 103.6 19.1 97 92 53	mg/l mg/l mg/l mg/l	2-10 " " " " " " " " " " " " " " " " " " "	
ANALYTICAL R NF, NA    Conductivity (C 25°C (00095)   ☐ Total non-filteral residue (susper (00530)  ☐ Other:  ☐ Other:  ☐ Other:  NF, A-H₂SO₄  ☐ Nitrate-N + , Nit total (00630)	esults from  orrected)  ble nded)  rate-N	1 SAMPLES	mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other: C3  F, A-H2 SO4  Nitrate-N + , Nitrate-N dissolved (00631)  Ammonia-N dissolved	4.28 203.0 19.0 97 92 53 111 00	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 " " " " " " " " " " " " " " " " " " "	
ANALYTICAL R NF, NA   Conductivity (C 25°C (00095)  □ Total non-filteral residue (susper (00530)  □ Other: □ Other: □ Other: □ Nitrate-N + , Nit total (00630) □ Ammonia-N total	esults from  orrected)  ble inded)  rate-N  al (00610)	1 SAMPLES	mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00945)  Total filterable residue (dissolved) (70300)  Other: C3  F, A-H2 SO4	4.28 203.0 19.0 97 92 53 111 00	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 " " " " " " " " " " " " " " " " " " "	
ANALYTICAL R NF, NA    Conductivity (C 25°C (00095)   Total non-filteral residue (susper (00530)  Other:  Other:  Other:  NF, A-H₂SO₄  Nitrate-N + , Nit total (00630)  Ammonia-N total  Total Kjeldahl-N ( )  Chemical oxyge	en ()	n SAMPLES	mg/lmg/lmg/lmg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00945)  Total filterable residue (dissolved) (70300)  Other: C3  F, A-H2 SO4  Nitrate-N + , Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)	4.28 203.0 19.0 97 92 53 111 00	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 " " " " " " " " " " " " " " " " " " "	
ANALYTICAL R NF, NA    Conductivity (C 25°C (00095)   Total non-filteral residue (susper (00530)  Other:  Other:  Other:  NF, A-H₂SO₄  Nitrate-N + , Nit total (00630)  Ammonia-N total Total Kjeldahl-N ( )  Chemical oxyge demand (00340	en ()	n SAMPLES	mg/lmg/lmg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Chloride (00940)  Chloride (00945)  Total filterable residue (dissolved) (70300)  Other: CO3  K  F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N ( )  Other:	4.28 203.0 19.0 97 92 53 111 00	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 " " " " " " " " " " " " " " " " " " "	
ANALYTICAL R NF, NA  PR Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other: Other: Other: NF, A-H₂SO₄  Nitrate-N + , Nit total (00630)  Ammonia-N total Total Kjeldahl-N ( ) Chemical oxyge demand (00340)  Total organic ca ( )	en ()	n SAMPLES	mg/lmg/lmg/lmg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Chloride (00940)  Chloride (00945)  Total filterable residue (dissolved) (70300)  Other: C3  F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N	4,78 703.0 19.1 97 92 53 111 00 1/.7	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 " " " " " " " " " " " " " " " " " " "	
ANALYTICAL R NF, NA    Conductivity (C 25°C (00095)   Total non-filteral residue (susper (00530)  Other:  Other:  Other:  NF, A-H₂SO₄  Nitrate-N + , Nit total (00630)  Ammonia-N total Total Kjeldahl-N ( )  Chemical oxyge demand (00340)  Total organic ca ( )  Other:	rate-N at (00610)	n SAMPLES	mg/lmg/lmg/lmg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Chloride (00940)  Chloride (00945)  Total filterable residue (dissolved) (70300)  Other: CO3  K  F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N ( )  Other:	4,78 703.0 19.1 97 92 53 111 00 1/.7	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 " " " " " " " " " " " " " " " " " " "	
ANALYTICAL R NF, NA  PC Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other: Other: Other:  NF, A-H2SO4  Nitrate-N + , Nit total (00630)  Ammonia-N total Total Kjeldahl-N ( ) Chemical oxyge demand (00340)  Total organic ca ( ) Other:	rate-N at (00610)	n SAMPLES	mg/lmg/lmg/lmg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Chloride (00940)  Chloride (00945)  Total filterable residue (dissolved) (70300)  Other: CO3  K  F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N ( )  Other:	4,78 703.0 19.1 97 92 53 111 00 1/.7	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 " " " " " " " " " " " " " " " " " " "	



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555.

PF HEAVY METALS

## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 2	10 26 N	8.H14277	USER 59300	59600 <u>≭</u> X c	THER: 82	235	
Callection DATE		SITE	Sample location	CHARGE FROM		ENHOUSE	
Callection TIME 0915		ATION	Collection site description	1			
Callected by — Person/Agi		00.0					
ISHICEY /JO	#NS0N -	000	<u> </u>		Ţ- <del></del>		<u></u>
-		EAL DUDEALL	-				
E.	NVIRUNMENI	TAL BUREAU SERVATION DIV	NOTOTI				,
SEND N	m ull cons	Office Bldg,	PO Box 2088	8			***************************************
REPURI C	anta Fe,						
			# 1 L				
Attn: _	David Boy	yer					
				•	Station/ well code		
0 4 4 4 5 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	151716116			1 1	Owner		
SAMPLING CON							
	Pump Tap	Water level		Discharge		Sample type	
pH (00400)		Conductivity (Unco	reacted)	Water Temp. (00010)		Conductivity at 25°	C (00094)
	<b>.</b> /	222		Water lenip. (00010)	470°C	Conductivity at 25	μmho
Field comments.		<del></del>		<u> </u>		<del></del>	<del></del>
u	JATER 1	5 CIRCUL	ATED TH	LEDUCH FIN	PIPES	TO HEAT	<u> </u>
6	REENHO	USES					
SAMPLE FIELD	TREATMENT	T — Check prope	r boxes				
No. of samples	, □ NF	Whole sample	图 F: Filtered in		mlH _z SO ₄ /	Ladded HNO	•
submitted		(Non-filtered)	0.45 μmei	mbrane filter			
NA: No acid	added 🗆 C	Other-specify:	•				
ANALYTICAL RE	ECI 11 TC 4	CAMBLES					
NF. NA			Units Date analyze	I F. NA		Units	Date analyzed
				-			
Conductivity (Co 25°C (00095)	orrected)	·	ımho	☐ Calcium (00915) ☐ Magnesium (00925)		mg/l _ mg/l _	
` '				☐ Sodium (00930)		mg/l _	
Total non-filterations residue (suspen				☐ Potassium (00935)		mg/l _	
(00530)			mg/l	☐ Bicarbonate (00440)		mg/l _	
POther: /CAP	SCAN			☐ Chloride (00940)			<del></del>
ع Other: ع		5.455	3/14/98	□ □ Sulfate (00945) □ □ Total filterable residue	_ <del></del>	mg/l _	
☐ Other: 🕰		7, 012	<u> </u>	(dissolved) (70300)	•	ma/l	
NE A H SO				☐ Other:			
NF, A-H ₂ SO ₄				F, A-H ₂ SO ₄			
☐ Nitrate-N + , Nitr total (00630)	rate-N	•	mg/l				
☐ Ammonia-N tota	al (00610)		mg/l	■ Nitrate-N+, Nitrate-	N	·	
☐ Total Kjeldahl-N				dissolved (00631)  Ammonia-N dissolve		mg/l _	
( )			mg/l	(00608)	<del>ru</del>	mg/i _	
Chemical oxyge demand (00340)				☐ Total Kjeldahl-N			
☐ Total organic ca			mg/l	- ( )		mg/l _	
( )			mg/l	Other:			<del></del>
COther:				Analyst	i Data Re	eported Review	ag by
☐ Other:			-	- Allaysi		Ported Review	7A
Laboratory remarks	3	<del></del>				<u> </u>	
		<del></del>					***************************************

Sample Code: Sischurge from Lumbour HM 277 Lab Number: Date Submitted: 2/10/86 Date Analyzed: Reviewed By: Date Reported: AA VALUE (MG/L) Element ICAP VALUE (MG/L) 40.1 Aluminum 40.1 Barium <01 Berylium 0.5 Boron 1.0> Cadmium Calcium 21. 401 Chromium 40.1 Cobalt 40.1 Copper 0.2 Iron 40. Lead 0.1 Magnesium 0.05 Manganese 40.1 Molybdenum 40.1 Nickel 76. Silicon 40.1 Silver Strontium 20.1 Tin 40.1 Vanadium 40. Zinc 0.012 Arsenic <0.005 Selenium Mercury



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 2	10 86 N	8 NC 563	USER 59300	D 59600 XX C	THER: 82	235		
Collection DATE /   2 8   8 6  Collection TIME		SITE INFORM-► ATION	Sample location	RGETT FREST	4 WAT	TER I	WEL	
Collected by — Person/Ac			Collection site description	~ 1/2 mi	WSW	of cl	CEEN	HOUSES
SEND N FINAL S REPORT S	M OIL CONS tate Land anta Fe, I David Boy			3	Station/ well code Owner			
	R Pump □ Tap	Water level		Discharge 65-70	gpm	Sample typ	ре	
pH (00400)		Conductivity (Uncor	rrected) µmho	Water Temp. (00010)	· °C	Conductivi	ty at 25°	°C (00094) µmho
	7. <u>0</u> . /75 1 TREATMENT / ☑ NF	Г — Check prope	r boxes	field with A: 2	<i>F/EC0</i> ml H₂SO₄/		<b>5</b>	
⊠ NA: No acid								
ANALYTICAL RI	SULTS from		Jnits Date analyzed	I F. NA			Units.	Date analyzed
	ele .	μ	mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:	- 10 - 80 - 31 - 31		mg/l _ mg/l	2-10  11  11  11  11  2/20  2/18  3/13  2/18  2/18
☐ Nitrate-N+, Nitr total (00630)	ate-N	•	mg/l	F, A-H ₂ SO ₄				
☐ Ammonia-N tota ☐ Total Kjeldahl-N ( ) ☐ Chemical oxyge demand (00340) ☐ Total organic car ( )	n ,		mg/l	Nitrate-N+, Nitrate-N dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N ( ) Other:			mg/l _ mg/l _ mg/l _	
☐ Other: ☐ Other:				Analyst	Date Re	eported 24 86	Review	Ed by
Laboratory remarks								



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

GENERAL WATER CHEMISTRY HERVY and NITROGEN ANALYSIS METRIC

DA	CEIVED 2	10 156 N	8. HM282	USER 5930	o □ 59600 <del>X</del> X 0	THER: 82	235	
Cau	/   28   86		SITE	Sample location 84			TER WEL	<u>_</u>
Coil	ection TIME /0/5	•	ATION	Callection site description				
	ected by — Person/Ag			Collection site descriptio	~ 1/2 mi	WSW	of GREEN	HOUSES
B	AILEY/JO	DHNSOU -	oco			7		
			TAL BUREAU	VICION				······································
SEN			SERVATION DI		8	<del></del>		
REF		anta Fe,		, PO Box 208				
TO •		· ·						
	Attn: _	David Boy	yer	*************	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>			
						Station/		
						Owner Owner		
SA	MPLING CON	DITIONS				Owner		
		Rump.	Water level		Discharge (-5-30		Sample type	
		Тар				gpm		
ρH	f (00400)		Conductivity (Unc		Water Temp. (00010)	· °C	Conductivity at 25	
F*: -			<u> </u>	μmho			1	μmho
r ie	eld comments	TD. 175	NOT (	ENOUGH SA	MPLE FOR	FIELD	TESTS.	
						*****************		
SA	MPLE FIELD	TREATMENT	Г — Check prop	er boxes			<del></del>	
_	lo. of samples		Minute annuals		field with	-111.00.7	1	
	ubmitted.	/	(Non-filtered)	/AI E !	mbrane filter	<del>™ H₂SO</del> ₄/	Ladded 州ルの	3
	NA: No acid	added 🗆 C	)ther-specify:					
	1 17A. 110 acid	added = C	лин-зреслу.					
٩N	ALYTICAL RE		SAMPLES					
	NP, NA F	7 HNO3		Units Date analyze	d F, NA		Units	Date analyzed
$\Box$	Conductivity (Co	rrected)			☐ Calcium (00915)		mg/l _	
	25°C (00095)			µmho	<ul> <li>Magnesium (00925)</li> </ul>			
	Total non-filterab	le			☐ Sodium (00930)		mg/l _	
	residue (suspend				☐ Potassium (00935) ☐ Bicarbonate (00440)		mg/l _ mg/l _	
<u></u>	(00530) Other: /CAP	50.042		mg/l	☐ Chloride (00940)		mg/l _	
	Other: Se	<u> </u>	0.00%	2/10/2/	□ Sulfate (00945)		mg/l _	
	Other: Qo		0.005	1/7 212	Total filterable residue	•		
_					(dissolved) (70300)		mg/l _	
NF	. A-H₂SO₄				C Other:			·
Ξ	Nitrate-N+, Nitra	ate-N			F. A-H2 SO4			
	total (00630)			mg/l	□ Nitrate-N +, Nitrate-I	<b>V</b>		
	Ammonia-N total	(00610)	<del>-</del>	mg/l	dissolved (00631)	-	mg/l _	
_	Total Kjeldahl-N			mg/l	☐ Ammonia-N dissolve	d		··· <del>·····</del>
	Chemical oxyger	ı ——			(00608)		mg/l _	<del></del>
	demand (00340)			mg/l	Total Kjeldahl-N		ma/l	
	Total organic cart	oon		ma/l	☐ Other:		mg/l _	-
	( ) Other:			mg/l				
	Other:	<del></del>		<del></del>	Analyst	Date Re		ed by
_	=					41	18 86 CA	4
Lat	oratory remarks					Ž.	100 1/2	4-1
							make exque	af
					` \-	•	, ,	i

Sample Code: Burgett Fresh Water We HM 282 Tab Number: Date Submitted: 2 Date Analyzed:_ Reviewed By: Date Reported: ICAP VALUE (MG/L) AA VALUE (MG/L) Element 40.1 Aluminum 40.1 Barium 40.1 Berylium 10. Boron 40. Cadmium <u> 33.</u> Calcium 40.1 Chromium 40.1 Cobalt 40. Copper 40.1 Iron 40.1 Lead Magnesium 40.05 Manganese 40. Molybdenum 40.1 Nickel Silicon 40. Silver Strontium 0.2 Tin 40.1 40.1 Vanadium 40. Zinc Arsenic Selenium

• ?

Mercury



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

PF

HEAVY METALS
GENERAL WATER CHEMISTRY
and NITROGEN ANALYSIS

PATE RECEIVED 2 10	26 NO. HM 230	USER 59300	59600 ^{XX} ⊙	THER: 82	235		
Callection DATE / 28/86	SITE INFORM-	Sample location	REETT IRRIC	FATION	WEL	۷	
Collection TIME / 0 40 Collected by — Person/Agency	ATION	Collection site description	~ 2m, sw	0+	FREEW	HOUSES	
SEND NM OI FINAL State REPORT Santa	ONMENTAL BUREAU L CONSERVATION DI Land Office Bidg Fe, NM 87501	VISION , PO Box 2088	3				
Attn: <u>uav</u> SAMPLING CONDITIO	ons			Station/. well code.			
☐ Bailed ☑ Pun ☐ Dipped ☐ Tap	np Water level		Discharge 1400	g:p~	Sample typ	Э	
pH (00400) フ. ひ	Conductivity (Unco	orrected) 600 μmho	Water Temp. (00010)	19 °C	Conductivi	ty at 25°C (000	194) µmho
	250 - ATMENT — Check prope						
No. of samples submitted  NA: No acid adde  ANALYTICAL RESUL		区 F: Filtered in 0.45 μmer	mbrane filter	mi H ₂ SO ₄ /	L added		anaivzed
Conductivity (Correcte 25°C (00095)  Total non-filterable residue (suspended) (00530)	d)	umho	☐ Calcium (00915) ☐ Magnesium (00925) ☐ Sodium (00930) ☐ Potassium (00935) ☐ Bicarbonate (00440)			mg/i mg/i mg/i mg/i	analyzeu
Cother: /CAP SC/     Other: Se     Other: As     NF, A-H₂SO₄	20.008 	%/19/80 4/7/96	☐ Chloride (00940) ☐ Sulfate (00945) ☐ Total filterable residue (dissolved) (70300) ☐ Other:			mg/l	
☐ Nitrate-N + , Nitrate-N			F, A-H ₂ SO ₄				
total (00630)  Ammonia-N total (0061)  Total Kjeldahl-N ( )  Chemical oxygen demand (00340)  Total organic carbon ( )		mg/l	□ Nitrate-N +, Nitrate-N dissolved (00631) □ Ammonia-N dissolve (00608) □ Total Kjeldahl-N ( ) □ Other:			mg/l	
C Other:			Analyst		eported (8 86	Reviewed by	
Laboratory remarks						<i>y</i>	

Sample Code: Burgett Irrigation Well Lab Number: HM 280 Date Submitted: 2/10/80 Date Analyzed: Reviewed By: Date Reported AA VALUE (MG/L) ICAP VALUE (MG/L) Element 40.1 Aluminum 40.1 Barium 20.1 Berylium 40.1 Boron 40. Cadmium 72, Calcium 40.1 Chromium ~ 40.1 Cobalt 40. Copper <0.1 Iron <0.1 Lead Magnesium <0.05 Manganese 40.1 Molybdenum 40.1 Nickel Silicon 40.1 Silver 0.4 Strontium 1.07 Tin 40.1 Vanadium 40.1 Zinc



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE. Albuquerque, NM 87106 -- (505) 841-2555

( )							
DATE RECEIVED 2	10 186 N	8WC 561	USER CODE 5930	o □ 59600 🖎 o	THER: 82	235	
Collection DATE	7-1-1-1-1	SITE	Sample location				
1   28   86		INFORM- >		reall wel	<u></u>	<u></u>	
Collection TIME		ATION	Collection site descriptio				<del></del>
Collected by - Person/Ac				" NILE MILE	WEST	OF BUR	6E77
BAILEY/JO	HNSON -	000			FAC	CILITIES	····
F	NVTRONMENT	TAL BUREAU					
		SERVATION DIV	/ISION				
FINAL	tate land	Office Bldg	PO Box 208	8			
HEPORT ,	anta Fe,		,	•			***************************************
<u> </u>					<del></del>		/*************************************
Attn: .	David Boy	ver	· 				·
					Station/		<del></del>
					well code		
SAMPLING CON	SMOITIONS				Owner		
	فستنسيخ فللسريب فالبنج بالتنسال	·	·	l si	L	( O	
	© Yump	Water level		Discharge		Sample type	
<del> </del>	□ Тар						
pH (00400)	, _·	Conductivity (Unco		Water Temp. (00010)	00	Conductivity at 25	
	6.7		490 µmho	<u> </u>	17.5°C	L <u>-</u>	μmho
Field comments	2 /2						
	T.O. 12	51					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			•				•
SAMPLE FIELD	TREATMENT	Г — Check prope	r boxes			, .	
No. of samples		Whole comple		field with		<del></del>	
submitted	/   愛 NF	(Non-filtered)		mbrane filter	ml H₂SO₄/	L added	
<del></del>	<del></del>	<del>``</del>					
☑ NA: No acid	dadded 🗆 C	Other-specify:				•	•
ANALYTICAL DI	FOULTO (	CAMPI EC				<del></del>	
ANALYTICAL RI	ESULIS HOIF		Units Date analyze	ALE NA		Units	Date analyzed.
NF, NA			Units Date analyze				
Conductivity (Co	orrected)			☑ Calcium (00915)	59.2	mg/l	2-10
^` 25°C (00095)	<del></del>		ımho	_ 🕄 Magnesium (00925)	11.7	mg/l	
	-1-			☑ Sodium (00930)	32.8	mg/l	<u>'</u>
☐ Total non-filterat residue (suspen			•	Potassium (00935)	2.73	mg/l	-4
(00530)			mg/l	☐ Bicarbonate (00440)		, ,	2/18
☐ Other:			J	□ ☑ Chloride (00940)		<u>reb</u> mg/l	2/18
☐ Other:			<del></del>	□ 57 Sulfate (00945)		<u>#/.</u> mg/l	
☐ Other:	<del></del>		<del></del>	Total filterable residue	i/	43 ma/l	3/13
a ouner.			<del></del>	(dissolved) (70300)	$\frac{1}{2}$	93 mg/l	7/14
NF, A-H₂SO4				Other: 😂 3		.00	2/17
				F, A-H ₂ SO ₄			
☐ Nitrate-N +, Nitr total (00630)	rate-N		mg/l			<del></del>	
☐ Ammonia-N tota	.I. (00610)		mg/l	□ Nitrate-N +, Nitrate-N	1.		
	, ,		ing/i	dissolved (00631)		mg/l	
☐ Total Kjeldahl-N			mg/l	☐ Ammonia-N dissolve	d		
☐ Chemical oxyge	·n		g	(00608)		mg/l .	<del></del>
demand (00340)			mg/l	☐ Total Kjeldahl-N			
☐ Total organic car				-) ( )	. ———	mg/l .	
( )			mg/l	_		<del></del> .	
☐ Other:			•	المستخد			
☐ Other:		:		Analyst	Date Re		wed)by
				- [	13 2	4 86 12	Low
Laboratory remarks	<del></del>			<u></u>		<del></del>	
		i-t.			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~	



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE "Albuquerque, NM 87106 — (505) 841-2555

PF.

HEAVY METALS
GENERAL WATER CHEMISTRY
and NITROGEN ANALYSIS

Collection DATE / Z8 86	1/0 /2 - 140	5. HM 272	CODE 59300	<u> </u>	THER: 82	235	
/ Z8 86		SITE	Samole location	EALL WEL	<u>ر</u>		
Collected by — Person/A		ATION	Collection site description	~ 3/4 MILE	WEST	of Bur	GE77
	HUSON - C	وري الم				LILITIES	
SEND PINAL SEPORT	ENVIRONMENT MM OIL CONS State Land Santa Fe, N David Boy	SERVATION DIV Office Bldg NM 87501	, PO Box 2088	3. 8 Jane 1	Station/ well code		
SAMPLING CO	NOITIONS		"	ja .	Owner		<del>- 1.</del>
Bailed Dipped	≥ Pump □ Tap	Water level	457	Discharge		Sample type:	
pH (00400)	6.7	Conductivity (Unco	rrected) 490 μmho	Water Temp. (00010)	⁄7.5°C	Conductivity at 25	5°C (00094) µmho
Field comments	T.D. 12	5					
SAMPLE FIELD	TREATMENT	「 — Check prope	er boxes				
No. of samples submitted	/ □ NF	Whole sample (Non-filtered)	<b>E</b> F: Filtered in 0.45 μmer	field with A: 2-	ml H₂ <del>SO</del> ₄/	Ladded HNO	્રેડ
□ NA: No aci	d added : 🗆 C	other-specify:					
ANALYTICAL R	ESULTS from						
	17.30						
MP. NA. FA	HNOZ		Units Date analyzed	I F. NA		Units:	Date analyzed
☐ Conductivity (C 25 °C (00095)	Corrected)		units Date analyzed	Calcium (00915) Magnesium (00925) Sodium (00930)		mg/l mg/l	Date analyzed
Conductivity (C 25°C (00095)  Total non-filtera residue (susper (00530)	corrected) ble- nded)			Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440)		mg/l mg/l mg/l mg/l	
Conductivity (C 25°C (00095)  Total non-filtera residue (susper (00530)	SCAN		mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00946) Sulfate (00945)		mg/l mg/l mg/l mg/l	
Conductivity (C 25°C (00095)  Total non-filtera residue (susper (00530)  Other: /CAP  Other: Se	ble- nded)		4mho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total-filterable residue (dissolved) (70300)		mg/l mg/l mg/l mg/l mg/l mg/l	
Conductivity (C 25°C (00095)  Total non-filtera residue (susper (00530)  Other: /CAP  Other: Se	ble- nded)		umho mg/l ろわらけむ	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:		mg/l mg/l mg/l mg/l mg/l mg/l	
Conductivity (C 25°C (00095)  □ Total non-filtera residue (susper (00530)  ⊗ Other: /CAP ⊗ Other: Δe □ Other: Δe  NF, A-H₂SO₄ □ Nitrate-N + , Nit total (00630)	ible-inded) SCAN  itrate-N		/mho  mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄		mg/l mg/l mg/l mg/l mg/l mg/l	
Conductivity (C 25°C (00095)  □ Total non-filtera residue (susper (00530)  © Other: /CAP  © Other: Se □ Other: AH₂SO₄ □ Nitrate-N+, Nitra	ible-inded) SCAN  trate-N ai (00610).	. <u> </u>	/mho  mg/l  = 1/7/22  = 1/7/22  mg/l  mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄ Nitrate-N + Nitrate-I dissolved (00631) Ammonia-N dissolved		mg/l mg/l mg/l mg/l mg/l mg/l	
Conductivity (C 25°C (00095)  □ Total non-filtera residue (susper (00530)  Ø Other: /CAP  Ø Other: Se  Other: AH₂SO₄  □ Nitrate-N + Nitrotal (00630)  □ Ammonia-N tot	trate-N		/mho  mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄ Nitrate-N + Nitrate-I dissolved (00631)		mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	
Conductivity (C 25°C (00095)  □ Total non-filtera residue (susper (00530))  © Other: /CAP  © Other: Se  Other: AH₂SO₄  □ Nitrate-N+, Nit total (00630)  □ Ammonia-N tot  □ Total Kjeldahl-N ( )  □ Chemical oxyg	trate-N ai (00610).		mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄ Nitrate-N + Nitrate-I dissolved (00631) Ammonia-N dissolve (00608)		mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	
Conductivity (C 25°C (00095)  □ Total non-filtera residue (susper (00530)  ⊗ Other: /CAP  ⊗ Other: Se □ Other: AH₂SO₄ □ Nitrate-N+, Nitrotal (00630) □ Ammonia-N tot □ Total Kjeldahl-N ( ) □ Chemical oxyg demand (00344	trate-N ai (00610).		mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄ Nitrate-N + Nitrate-I dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N	Date Re	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	wed by
Conductivity (C 25°C (00095)  □ Total non-filtera residue (susper (00530)  Ø Other: /CAP  Ø Other: Se  Other: AH₂SO₄  □ Nitrate-N + Nit total (00630)  □ Ammonia-N tot  □ Total Kjeldahl-N ( )  □ Chemical oxyg demand (00344)  □ Total organic ca ( )  □ Other:	trate-N ai (00610).		mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄ Nitrate-N + Nitrate-I dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N	Date Re	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	

Sample Code: Beall Well Lab Number: /+ M 278 Date Submitted: 2/10/86 Date Analyzed: Reviewed By: Date Reported 4/19 ICAP VALUE (MG/L) AA VALUE (MG/L) Element 40. Aluminum 20. Barium 40. Berylium 40.1 Boron 40.1 Cadmium 59. Calcium 401 Chromium 40.1 Cobalt 401 Copper 401 Iron 40.1 Lead Magnesium 40.05 Manganese 40. Molybdenum 40. Nickel 16. Silicon 40. Silver Strontium 40.1 Tin 20.1 Vanadium 0.8 Zinc <0.005 Arsenic <0.005 Selenium

... <u>*</u> *

Mercury



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 -- (505) 841-2555



.11			<del>,</del>				
DATE RECEIVED 2	10 86 4	3.WC 564	CODE 5930	<u> □ 59600 🖎</u> C	THER: 82	235	
Collection DATE		SITE INFORM- ►	Sample location VA	LLEY VIEW		NITY	CHURCH
Collection TIME		ATION	Collection site description			· · · · · · · · · · · · · · · · · · ·	
Collected by Person/Age		20. 4		~Zmi WE	ST of	BURGET	T FACILITIES
BARCEY/JOH	40000 -	OCA	L		] ·		······································
EA	NYTDONMEN'	TAL BUREAU					
SEND N	4 OIL CONS	SERVATION DI	VISION				
FINAL S			, PO Box 208	3			
REPORT Sa	anta Fe, I	NM 87501					
Attn: _	David Boy	ver ·			l	<del></del>	<u></u>
	· •			Station/		<u> </u>	
					well code		
SAMPLING CON	DITIONS				Owner		
	Pump	Water level		Discharge		Sample type	·:
<del></del>	Тар	0 4 4 4				0	25.00 (0000.4)
pH (00400)	7.4	Conductivity (Unco	24/µmho	Water Temp. (00010)	// °C	Conductivity at	25°C (00094) μmho
Field comments	<u> </u>	<u> </u>	2. 1 / 1				<del></del>
					************		
					·····		
		- 01 1					
SAMPLE FIELD		M/hala samala		Cale with	<del></del>	<del></del>	
No. of samples submitted	/ <b>国 NF</b>	Whole sample (Non-filtered)	F: Filtered in	nbrane filter	mi H₂SO₄/i	L added	•
TO NA A A La a a sid		<del></del>					
X NA: No acid	added LC	mer-specily:					
ANALYTICAL RE	SULTS from	SAMPLES					
NF, NA			Units Date analyzed	F, NA		Units	
Conductivity (Con	rrected)			☑ Calcium (00915)		$\frac{2.1}{200}$ mg/l	
` 25°C (00095)		<del></del>	(mho	. ☑ Magnesium (00925) ☑ Sodium (00930)		<u>.44</u> mg/l <u>≲.2</u> mg/l	
☐ Total non-filterabl	-			☑ Potassium (00935)	<u>-</u> -	7 mg/l	47 -
residue (suspend (00530)	ied)		mg/l	Bicarbonate (00440)		3.7 mg/l	
☐ Other:				Q Chloride (00940)	•	8 • 6 mg/l	
☐ Other:				☑ Sulfate (00945) ☑ Total filterable residue		····g/·	
☐ Other:				(dissolved) (70300)		2-58 mg/l	3/13
NF, A-H₂SO₄				Other: 😕	0.		2/18
☐ Nitrate-N+, Nitra	to N			F, A-H ₂ SO ₄		,17	1/17
total (00630)			mg/l	□ Nitrate-N + , Nitrate-N			
☐ Ammonia-N total	(00610)		mg/l	dissolved (00631)	` <u> </u>	mg/l	
☐ Total Kjeldahl-N			mg/f	☐ Ammonia-N dissolve	d		
☐ Chemical oxygen			mg/i	(00608)		mg/l	
demand (00340)			mg/l	☐ Total Kjeldahl-N		mg/l	
☐ Total organic carb	on		mg/l	□ Other:		g	
Other:			g/i				
☐ Other:				Analyst	Date Re		ewed by
1-6					3 4	436 C	Mom
Laboratory remarks							
							ì



# New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE: Albuquerque, NM 87106 — (505) 841-2555

## HEAVY METALS GENERAL WATER CHEMISTRY and MTROGEN ANALYSIS

- U-li-	3, 14W GF 100 (000) 04	···				
DATE RECEIVED 2 10 26	NO. HM 28/	CODE 5930	o □ 59600 💢 o	THER: 82	235	
Catlection DATE	SITE	Sample location				11
/   28   86	INFORM-	► VA	LLEY VIEW	commi	INITY C	HURCH
1030	ATION	Collection site description	1	•		_
Collected by — Person/Agency	20. 4		~ Zmi WE	57 04	BURGETT	FACILITIES
BAILEY/JOHNSON	<u> </u>	\		7		
	MENTAL BUREAU	TUTCTON	, ···			
END NM OIL ( NAL State La	CONSERVATION D	2 DO BOX 208	Ω			
	and Office Bld	g, ru bux 200	J			
s santa re	e, NM 87501				,	
Attn: _David_	Boyer					
				Station/		
				well code		· · · · · · · · · · · · · · · · · · ·
AMPLING CONDITIONS	3		•	Owner:		
☐ Bailed ☐ Pump	Water level		Discharge	<del>\</del>	Sample type	
□ Dipped ☑ Tap	11.000					•
pH (00400)	Conductivity (Un	corrected)	Water Temp. (00010)		Conductivity at 25°	C (00094)
7.4	,	24/ µmho		// °C		μmho
reid comments					*	
				·		
				····		
AMPLE FIELD TREATM	ENT — Check pro	per boxes				
No. of samples	NF: Whole sample	✓ ☑ F: Filtered in	field with		Ladded: HNO	)
submitted /	(Non-filtered)	0.45 μme	mbrane filter	<del>-1111-12004</del> /	Ladded. /320	3
☐ NA: No acid added	□ Other-specify:				-	
			1			- <del> </del>
NALYTICAL RESULTS 1						
NENA FA HNO	3	Units Date analyze	d F, NA		Units	Date analyzed
Conductivity (Corrected)			☐ Calcium (00915)		mg/l _	
25°C (00095)		_µmho	💶 🗆 Magnesium (00925)		mg/l _	
Tatal and 614-1-1-1-			☐ Sodium (00930)		mg/l _	
Total non-filterable residue (suspended)			Potassium (00935)		mg/l _	
(00530)		mg/l	☐ Bicarbonate (00440)	·	mg/! _	<del></del>
COther: ICAP SCAN			☐ Chloride (00940)		mg/l _	
☑ Other: Se	20.005	2/14/36	Sulfate (00945) Total filterable residue		mg/i _	<del></del>
Other: 🕰	K10,005	4/5/21.	(dissolved) (70300)		mg/l _	
	<del></del>		☐ Other:			
NF, A-H2SO4						
□ Nitrate-N+, Nitrate-N			F, A-H2 SO4			
total (00630)	···	mg/l	□ Nitrate-N +, Nitrate-	N .		
Ammonia-N total (00610)		mg/l*	dissolved (00631)		mg/l _	
Total Kjeldahi-N	,		☐ Ammonia-N dissolve	∍d	,	
Chamical aware		mg/l	(00608)		mg/l _	
Chemical oxygen demand (00340)		mg/l	☐ Total Kjeldahl-N			
Total organic carbon			( )		mg/l _	
( )		mg/l	Other:		<del></del>	
Other:			Analyst	10 0		
Other:			Analyst		eported Review	
				4	18 86 17	<del>24</del>
aboratory remarks					0	<del></del>
	- S _{1,0}		······································			
	***	·				

Sample Code: Valley View Comm. Cluch

Date Submitted: 2/0/86

By: Valley

Date Reported: 4/18/86

Element

ICAP VALUE (MG/L)

Barium

40.|

Bervlium

40.|

Bervlium

<u>Dicement</u>	TONE VILLOH (110) D)	MI TIMOH (May H)	
Aluminum	40.1		
Barium	40.		
Berylium	40.1		
Boron	<u> &lt;0.1</u>	· .	
Cadmium	40.1	4 <del>2</del>	
Calcium	26.	· .	
Chromium	40.1		
Cobalt	<u> </u>		
Copper	<u> </u>	· ·	
Iron	<u> &lt;0.1</u>		
Lead	<u> </u>		
Magnesium	2.3		
Manganese	40.05	<del></del>	
Molybdenum	40.1	<del></del>	
Nickel	<u> </u>		
Silicon	16	<del></del>	
Silver	40.1		
Strontium	0.2		
Tin	40.1		
Vanadium	<u> </u>		
Zinc	0.4		
Arsenic		<0,005	
Selenium		<0.005 <0.005	
Mercury			

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New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700.Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

DATE RECEIVED 2	10 26 N	6 HM 281	USER 59300	□ 59600 💢 C	THER: 82	235	
Collection DATE		SITE	Sample location VA	LLEY VIEW	commo	INITY C	HURCH
Collection TIME		ATION	Collection site description				
Collected by — Person/Ag		0C-A		· ~ Zmi We	ST 0f	BURGETT	FACILITIES
SEND N FINAL S REPORT S	NVIRONMENT	TAL BUREAU SERVATION DI Office Bidg NM 87501	VISION , PO Box 2088	3			
	·				Station/		
·			:		Owner Owner		
SAMPLING COI							
· ·	□ Pump ☑ Tap	Water level		Discharge		Sample type	
pH (00400)	7.4	Conductivity (Unco	orrected) 24/μmho	Water Temp. (00010)	// °C	Conductivity at 25	°C (00094) µmho
Field comments							
SAMPLE FIELD	TREATMENT	Г — Check prope	er boxes				
No. of samples submitted	<i>j</i> : □ NF	Whole sample (Non-filtered)	F: Filtered in	ield with A: 2	ml H ₂ SO ₄ /	Ladded HNC	) _*
□ NA: No acid	d added □ C		5.70 д.но.				
ANALYTICAL R	ESULTS from	SAMPLES					
NE TA	A HNOZ		Units Date analyzed	I F, NA		Units	Date analyzed
Conductivity (C 25°C (00095)	orrected)		μmho	☐ Calcium (00915) ☐ Magnesium (00925)		mg/lmg/l	
Total non-filteral residue (susper (00530)	nded)		, mg/l	□ Sodium (00930) □ Potassium (00935) □ Bicarbonate (00440)	)	mg/lmg/lmg/lmg/l	
₹ Other: /CAP		1. 1. 1. 1.	1.0100	☐ Chloride (00940) ☐ Sulfate (00945)		mg/l _ mg/l _	
© Other: Se ☐ Other: Co		6,605 6,005	3/14/86	Total filterable residue (dissolved) (70300)	e	mg/l	
NF, A-H₂SO₄	-			Other:		<del>-</del>	
☐ Nitrate-N+, Nit	rate-N			F, A-H ₂ SO ₄			
total (00630)  Ammonia-N total	al (00610)		mg/l mg/l	☐ Nitrate-N+, Nitrate-	N	•	
☐ Total Kjeldahl-N				dissolved (00631)  Ammonia-N dissolve		mg/l	
( )			mg/l	(00608)		mg/l	
Chemical oxyge demand (00340)			mg/l	☐ Total Kjeldahl-N			
□ Total organic ca	rbon		mg/l	Other:		mg/l	
☐ Other: ☐ Other:	<del></del>			Analyst	Date R	eported Review	ved by
= Other.			·	<u> </u>	4	18 86 13	74
Laboratory remarks				<del>_</del>			

Sample Code: Valley View Comm. Chuch Eab Number: HM 281 2/17/86 Date Submitted: 2/10/86 Date Analyzed: Reviewed By: Date Reported! AA VALUE (MG/L) Element ICAP VALUE (MG/L) Aluminum 10. 40.1 Barium 40.1 Berylium 40.1 Boron 40.1 Cadmium 26. Calcium 40.1 Chromium 40.1 Cobalt 40.( Copper 1.0> Iron <0. Lead 2.3 Magnesium 40.05 Manganese 40.1 Molybdenum 40.1 Nickel 16. Silicon 40.1 Silver 0.2 Strontium 40.1 Tin 1.0> Vanadium Zinc Arsenic Selenium

Mercury



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

Callection DATE / 28 86  Callection TIME	SITE		<u> □ 59600 💢 OT</u>			
	INFORM-	Sample location	RESETT IRRIG	ATION	WELL	······································
1040  Collected by — Person/Agency  BAICEY / JOHNSON —		Callection site description	~2m, 5w	o <del>f</del>	GREEN HOU	'SES
ENVIRONMEN' NM OIL CON' NAL State Land EPORT Santa Fe, Attn: David Bo	SERVATION DIV Office Bldg, NM 87501	ISION PO Box 208		Station/ well code		
AMPLING CONDITIONS				Owner .		
☐ Bailed  ☐ Pump ☐ Dipped ☐ Tap	Water level	·	Discharge /400	gp~	Sample type	
рн (00400) 7.0	Conductivity (Uncorr	ected) 600 µmho	Water Temp. (00010)	19 °C	Conductivity at 2	5°C (00094) <i>µ</i> mh
Field comments	, -	,				
						***************************************
AMPLE FIELD TREATMEN		· · · · · · · · · · · · · · · · · · ·				
No. of samples / NI	F: Whole sample (Non-filtered)	F: Filtered in 0.45 μmer	field with A: -2-I	ml H₂SO₄/	Ladded HN	103
□ NA: No acid added □ (	Other-specify:				<u> </u>	
□ NA: No acid added □ C	Other-specify:	nite Data analyza			Unite	Pote analyzed
NA: No acid added ☐ ( NALYTICAL RESULTS from NF, NA F, A HNO ₃ ☐ Conductivity (Corrected) 25°C (00095)	Other- <i>specify:</i> n <b>SAMPLES</b> U	nits Date analyze			Units mg/l mg/l mg/l	Date analyzed
NA: No acid added (NALYTICAL RESULTS from NF, NA F, A HNO3 Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530)	Other- <i>specify:</i> n <b>SAMPLES</b> U		d F. NA  Calcium (00915) Magnesium (00925)		mg/l mg/l mg/l	
NA: No acid added (NALYTICAL RESULTS from NF, NA F, A HNO2 Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: / CAP SCAN Cother: Se Other: Se	Other- <i>specify:</i> n <b>SAMPLES</b> U	nho	d F. NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)		mg/l mg/l mg/l mg/l mg/l	
NA: No acid added ☐ (  NA: No acid added ☐ (  NALYTICAL RESULTS from NF, NA F, A HNO3  ☐ Conductivity (Corrected) 25°C (00095)  ☐ Total non-filterable residue (suspended) (00530)  ☐ Other: / CA P SCAN ☐ (00530)  ☐ Other: Se ☐ Other: Qo	Other-specify:  n SAMPLES  U	nho	d F. NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:		mg/l mg/l mg/l mg/l mg/l mg/l	
□ NA: No acid added □ (  ANALYTICAL RESULTS from  NF, NA F, A HNO3  □ Conductivity (Corrected) 25°C (00095)  □ Total non-filterable residue (suspended) (00530)  □ Other: / CA P SCAN  □ Other: Sc	Other-specify:  n SAMPLES  U	nho	d F. NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H ₂ SO ₄ Nitrate-N + Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N ( ) Other:		mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	
NA: No acid added □ (  NE: NA F A HNO3 □ Conductivity (Corrected) 25°C (00095) □ Total non-filterable residue (suspended) (00530) □ Other:	Other-specify:  n SAMPLES  U	mho :	d F. NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄ Nitrate-N + Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N		mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	

Date Analyzed: 2/17/86 Lab Number: HM 280 Date Submitted: 2/10/86 Reviewed By: Date Reported AA VALUE (MG/L) Element ICAP VALUE (MG/L) 40.1 Aluminum 20.1 Barium 20.1 Berylium 40.1 Boron 40. Cadmium 72. Calcium 40.1 Chromium 40.1 Cobalt 40. Copper 40.1 Iron 40.1 Lead Magnesium <0.05 Manganese 40.1 Molybdenum 1.0> Nickel Silicon 40.1 Silver 0.4 Strontium 1.07 Tin 40.1 Vanadium 40.1 Zinc <0.005 Arsenic Selenium

Mercury



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

DATE RECEIVED 2	10 26	LAB 1117,279	USER 59300	o □ 59600 💢 🗡 O	THER: , 822	235	
Collection DATE /   28   86		SITE	Sample location B	urgett geo	THERM	TAL WEL	۷
Collection TIME	1	ATION	Callection sité description				
Collected by - Person/A			Section site description	7 7 255 R	· · · · · · · · · · · · · · · · · · ·		VALVE AT
BAILEY/L	JOHNSON	<u>-000</u>	£ 2311		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WELLHER	°⊘
		NTAL BUREAU NSERVATION DI	VISION INTERV	· · · · · · · · · · · · · · · · · · ·			
SEND FINAL	State Land	d Office Bldg	PO Box 2088	8	,		······································
REPORT TO	Santa Fe,	NM 87501	1 1 -				
<b>&gt;</b>	David Bo					*********	
Attn:	µav.tubt	) <u>//E1</u>		9411A0445+###################################			
					Station/ well code		
SAMPLING CO	NDITIONS	•	**.*; **;		Owner DAL	E BURGETT	
☐ Bailed	⊋ Pump	Water level STA	TIC W.L. 65	Discharge		Sample type	
_ Dipped	Ē Tap	DEPTH TO		300 90	<b>~</b>		
pH (00400)	?. /	Conductivity (Unco		Water Temp. (00010)		Conductivity at 25	
	3 · /	29	<del>συ μ</del> mho		48 °C		μmho
Field comments	PUMPEA	FOR JOHR	S/ nov To	HEAT GREE	N HOUSE	S REPOR	ETED
	•					×	
TO BE	240° F	at well hi	<u> 5AO. 7.0.</u>	250	***************************************		**********************
SAMPLE FIELD	TREATMEN	NT — Check prope	er boxes				
No. of samples	/ 🗆 N	\Mholo comple	F: Filtered in	field with		added 420	)
submitted	/   _ ',	(Non-filtered)	0.45 μme	mbrane filter	1111112004/1	added / x x y	3
□ NA: No ac	id added 🗆	Other-specify:					
ANALYTICAL		m SAMPLES	Units Date analyze	- I E NA		Units	Date analyzed
	NNO.	<u> </u>	Units Date analyze				Date analyzed
Conductivity (6 25°C (00095)	Corrected)		umho	☐ Calcium (00915) ☐ Magnesium (00925)	<del></del>	mg/l _	
25 5 (55555)		· · · · · · · · · · · · · · · · · · ·	4,11110	Sodium (00930)		mg/l _ mg/l _	
☐ Total non-filter				Potassium (00935)		mg/l _	
residue (suspe (00530)	ended)		mg/l	☐ Bicarbonate (00440)		mg/l _	
S Other: ICA	P SCAN			☐ Chloride (00940)	-	mg/l _	·
∑ Other: Se_		51405	2/14/26	Sulfate (00945)  Total filterable residue		mg/l _	<del></del>
□ Other: 🕰		C. C. 11.	<u> </u>	(dissolved) (70300)		mg/l _	
NF, A-H ₂ SO ₄			<del></del>	Other:			
				F. A-H ₂ SO ₄			
Nitrate-N+, N total (00630)	itrate-N		mg/l		<del></del>	<del></del>	
☐ Ammonia-N to	otal (00610)		mg/l	Nitrate-N+, Nitrate-I	N	ma/l	•
Total Kjeldahl-	N			dissolved (00631)  Ammonia-N dissolve		mg/i _	
( )	-		mg/!	(00608)		mg/l _	
☐ Chemical oxyg demand (0034			mg/l	☐ Total Kjeldahl-N			
☐ Total organic o			J	( )		mg/l _	
( )	_	<del></del>	mg/l	Other:	<del></del>		<del></del>
C Other:	_			Analyst	Date Re	ported Review	red by
☐ Other:	_	· <del></del>		-	1	8 86 Q	Calla
Laboratory remark	ks				L(	0 10-1 9	- Commy
	~~~~~		. •			·	·

Sample Code: Burgett Seothernal Well Lab number: HM 279 Date Analyzed: Date Submitted: Reviewed By:___ Date Reported: AA VALUE (MG/L) ICAP VALUE (MG/L) Element 40.1 Aluminum 40. Barium 40. Berylium 0.5 Boron 40.1 Cadmium 21. Calcium 40.1 Chromium 20.1 Cobalt 401 Copper 40.1 Iron 20. Lead 40.1 Magnesium 40.05 Manganese 40. Molybdenum 40. Nickel Silicon 20.1 Silver Strontium 40.1 Tin 40.1 Vanadium 40. Zinc 0.011 Arsenic Selenium Mercury



New Mexico Health and Environment Department

SWYNO HIEST	700 Camino de S	BORATORY DIVISION alud NE M 87106 — (505) 841-2		GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS				
DATE RECEIVED 2	10 26 N	8H11277	USER _ 59300	59600 X X	OTHER: 82	235		
Collection OATE / 2.8 86 Collection TIME 09/5	5	SITE INFORM- P ATION	Sample location O/S C	HARGE FRO		ENHOUSE		
Collected by - Person/	Agency	20.0		- A State of the S	***************************************			
SEND FINAL REPORT TO	ENVIRONMENT	TAL BUREAU SERVATION DIV Office Bldg NM 87501	, PO Box 2088	3 **	Station			
•					well code			
SAMPLING CO	ONDITIONS			···	Owner			
☐ Bailed ※ Dipped	☐ Pump ☐ Tap	Water level		Discharge		Sample type		
pH (00400)	8. /	Conductivity (Unco		Water Temp. (00010)	47°°C	Conductivity at 25	°C (00094) µmho	
No. of samples submitted	/ NE	T — Check prope Whole sample (Non-filtered) Other-specify:	F. Filtered in	field with 🗷 A: 2	≧ ml H _Z SO₄/	Ladded Hルさ	3	
NF. NA F	A HNOZ		Units Date analyze	F. NA		Units	Date analyzed	
Conductivity (25°C (00095) Total non-filter residue (susp (00530) Other: /CA/ Other: So	rable ended)	,	mg/l	🗖 🗀 Total filterable regidu))	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l		
NF, A-H₂SO₄				. (dissolved) (70300) . Other:		mg/l _		
☐ Nitrate-N+, N	Vitrate N			F, A-H ₂ SO ₄		·		
total (00630) Ammonia-N to Total Kjeldahl () Chemical oxy demand (003) Total organic ()	otal (00610) -N rgen		mg/lmg/lmg/lmg/lmg/l	Nitrate-N + , Nitrate dissolved (00631) Ammonia-N dissolv (00608) Total Kjeldahl-N		mg/lmg/lmg/l		
☐ Other:				Analyst		eported Review	ved by	

Laboratory remarks

Sample Code: Sischurge from Luenhous Lab Number: Date Submitted: 2/10/86 Date Analyzed: Reviewed By: Date Reported: 4/18/80 AA VALUE (MG/L) Element ICAP VALUE (MG/L) 40.1 Aluminum 40.1 Barium <01 Berylium 0.5 Boron 40.1 Cadmium Calcium 401 Chromium 40.1 Cobalt 40.1 Copper 0.2 Iron 401 Lead 0.1 Magnesium 0.05 Manganese 101 Molybdenum 40.1 Nickel Silicon 40.1 Silver Strontium 20.1 Tin 40.1 Vanadium 40. Zinc 0.012 Arsenic Selenium

Mercury



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE "Albuquerque, NM 87106 — (505) 841-2555

DATE RECEIVED 2	10 26 N	AB HM 278	USER _ 59300	o □ 59600 💥 o	тнея: 82:	235		
Collection DATE / Z8 86 Collection TIME		SITE	Sample location	CALL WEL				
1000		ATION	Collection site description	~ 3/4 MILE			a., a.c.c-	
Collected by - Person/Ag	gency <u>HNSON - C</u>	ه ا		N/V MICE	WEST	07 C	BURGETT S	
SEND N	NVIRONMENT	TAL BUREAU SERVATION DI' Office Bldg	VISION , PO Box 2088	تسريب				
>	David Boy		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mind Division		·	······	
Aur.		y. 		AND CO	Station/		<u>-</u>	
SAMPLING COM	NDITIONS		e de la companya de l	Ä	well code Owner			
	2x Pump	Water level	21,	Discharge		Sample typ	10	
Dipped pH (00400)	□ Tap 6.7	Conductivity (Unco	orrected) 490 µmho	Water Temp. (00010)	∕ ⁊. s °C	Conductivit	ty at 25°C (0009	94) μmho
Field comments	~F 0 /2							
***************************************	T.D. /2		* NA			, <u>,,,,,</u>		
SAMPLE FIELD	TREATMENT							
No. of samples submitted	□ NF	Whole sample (Non-filtered)	F: Filtered in 0.45 µmer	field with A: 2 mbrane filter	™H2SO 4/	Ladded 7	HNO3	
□ NA: No acid	d added 🗆 C	Other-specify:	·					
ANALYTICAL R	ESULTS from	SAMPLES				-		
NP. NA FA			Units Date analyzed	F. NA			Units Date	analyzed
☐ Conductivity (C	orrected)	·· · · ·		☐ Calcium (00915)			mg/l	
25°C (00095)	-		umho	■ Magnesium (00925)□ Sodium (00930)			mg/l	
☐ Total non-filtera				☐ Potassium (00935)			mg/l	
residue (susper (00530)	·		mg/l	☐ Bicarbonate (00440)			mg/l	
☑ Other: /CAP		· · · · · · · · · · · · · · · · · · ·	- 1 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1	☐ Chloride (00940) ☐ Sulfate (00945)			mg/l	
⊗ Other: Se		<u>, 603</u> , 803	3/11/26	■ Total filterable residue	,			
C Other: Q		,		(dissolved) (70300)		<u>,</u>	mg/l	
NF, A-H₂SO₄				Other:				
☐ Nitrate-N+, Nit	rate-N			F, A-H ₂ SO ₄				
total (00630) Ammonia-N total	 al (00610)		mg/l	□ Nitrate-N+, Nitrate-I	N			
☐ Total Kieldahl-N	. , -			dissolved (00631) Ammonia-N dissolved			mg/l	
()	_		mg/l	(00608)			mg/i	
Chemical oxygeneral demand (00340)			mg/l	☐ Total Kjeldahl-N			_	
☐ Total organic ca	ırbon		-	() 			mg/l	
() Other:			mg/l	-				
☐ Other:				Analyst			Reviewed by	
Laboratory remarks		· · · · · · · · · · · · · · · · · · ·	<u> </u>	_1	1 4	18 26) 7A	
	·						·	*********
				***************************************			***************************************	

Sample Code: Beall Well Lab Number: /+ M 278 Date Submitted: 2/10/86 Date Analyzed: Reviewed By:_ Date Reported ICAP VALUE (MG/L) AA VALUE (MG/L) Element 20. Aluminum 20.1 Barium 401 Berylium 40.1 Boron 20.1 Cadmium 59. Calcium 1.0> Chromium 40.1 Cobalt 40.1 Copper 40.1 Iron 401 Lead Magnesium 20.05 Manganese 40. Molybdenum 40.1 Nickel 16. Silicon 40.1 Silver Strontium 40.1 Tin 40.1 Vanadium 0.8 Zinc Arsenic Selenium Mercury

SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

DATE RECEIVED 2	10 36 N	5. HM2332	USER 5930	o <u> </u>	THER: 82	235	
Collection OATE / 28 86 Collection TIME	1	SITE INFORM- ►	Sample location	•		TER WEL	
Callected by — Person/As RA/LEY/J	gency	ATION OC. D	Callection site descriptio	~ ~ 1/2 mi	WSW	of GREEN	IHOUSES
SEND N FINAL S REPORT TO	NVIRONMENT	TAL BUREAU SERVATION DI' Office Bldg NM 87501	VISION . , PO Box 208	8			
			·		Station/ weil code		
SAMPLING CO					Owner .	To .	
1	Æ Pump □ Tap	Water level		Discharge 65-70	gpm	Sample type	
pH (00400)		Conductivity (Unco	prrected) µmho	Water Temp. (00010)	°C	Conductivity at 25	°C (00094) µmho
SAMPLE FIELD	T. D. /75		er boxes	AMPLE FOR	FIELD	TESTS.	
No. of samples submitted	/	Whole sample (Non-filtered)		field with 🗵 A: -2	. ml H₂SO ₄/	Ladded 州ルク	3
☐ NA: No acid	 		·	· · · · · · · · · · · · · · · · · · ·			
ANALYTICAL R		. I CIAL II	Units Date analyze	d F. NA		Units	Date analyzed
Conductivity (C 25 °C (00095) Total non-filtera residue (susper (00530)	orrected)		штhо	☐ Calcium (00915) ☐ Magnesium (00925) ☐ Sodium (00930) ☐ Potassium (00935) ☐ Bicarbonate (00440		mg/l	
© Other: /CAP © Other: Sa □ Other: Oo NF, A-H₂SO₄		C. 465 C. 465	2//4/as 4/5/24	Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other:		mg/l mg/l	
☐ Nitrate-N+, Nit	rate-N			F, A-H ₂ SO ₄			
total (00630) Ammonia-N total Kjeldahl-N (Chemical oxygordemand (00340) Total organic car ()	ai (00610)		mg/lmg/lmg/lmg/lmg/l	Nitrate-N + Nitrate- dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N () Other:	·	mg/lmg/lmg/lmg/l	
☐ Other:				Analyst	Date R		wed by
Laboratory remarks	s				141	18 86 09	4
			***************************************	***************************************	a	mple Diges	Xe f

Lab Number: HN	1 282	Sample Code: Burgett Fresh Water Wa
Date Submitted:	2/10/86	Date Analyzed: 2/17/86
By: Baily		Reviewed By:
0	•	Date Reported: 7 4/18/86
Element ICA	P VALUE (MG/L)	AA VALUE (MG/L)
Aluminum		·
Barium	40.	
Berylium	40.1	
Boron	40.	· · · · · · · · · · · · · · · · · · ·
Cadmium	40.)	
Calcium	33	
Chromium	20.1	
Cobalt	40.)	
Copper	40.	·
Iron	40.1	
Lead	40.)	
Magnesium	2.9	
Manganese	40.05	
Molybdenum	40.1	
Nickel	40.1	
Silicon	16.	· ·
Silver	۷٥٠	
Strontium	0.2	
Tin	40.1	
Vanadium		·
Zinc	40.	
Arsenic		<0.005 <0.005
Selenium		<0.005
Mercury		
		·



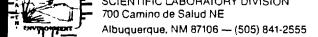
New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

DATE RECEIVED 2	1086 N	AB WC 562	USER CODE 59300	D 59600 XX OT	THER: 82	235		_
Collection DATE / 28 86 Collection TIME		SITE INFORM- > ATION	Sample location -		THERM		WEL	۷
Collected by - Person/Ac	gency OHUSON -		Collection site description	7 T255 R	19 W		SS LHEA	VALVE AT
SEND N FINAL S REPORT TO	M OIL CONS State Land Santa Fe, I David Boy	•			Station/ well code	E BUR	SE.77	
	Σς Pump □ Tap	Water level STAT	i	Discharge 300 gpm	כל	Sample typ	Эе	
pH (00400)	. /	Conductivity (Uncor	rrected)	Water Temp. (00010)		Conductivi	ty at 25°0	C (00094) µmho
L	TREATMENT	(Non-filtered)	r boxes	Coldwide	ml H₂SO₄/l	L added		
ANALYTICAL RI	ESULTS from						11-71-	
NF, NA Conductivity (Co	orrected)	(Jnits Date analyzed	Ø Calcium (00915)	<u>i 7.6</u>	,	Units mg/l	Date analyzed えイひ
25°C (00095) Total non-filteral residue (suspen (00530) Other: Other: Other:			mg/l	Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Cher: CO3	5	4.3 85 95	mg/l mg/l mg/l mg/l mg/l mg/l	1/3 2/18 2/18 3/13
NF, A-H₂SO₄				X F F, A-H ₂ SO ₄	12.	3		3/37
☐ Nitrate-N + , Nitr total (00630) ☐ Ammonia-N total ☐ Total Kjeldahl-N () ☐ Chemical oxyge demand (00340) ☐ Total organic car	il (00610)	r	mg/l	Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:			mg/l mg/l mg/l	
☐ Other: ☐ Other:				Analyst	Date Re	ported 4	Reviewe	<i>'</i>
Laboratory remarks				L	3 4	9 30		lin
								ı



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

DATE RECEIVED	21/01861	AB WC 560	USER 5930	о □ 59600 ЁХ от	_{HER:} 822	235	
Collection DATE	,	SITE	Sample location			NHOUSE	
Callection TIME		ATION	Collection site description	n	~	······	
Callected by - Person	Agency JOHNSON -	20.0					••••
BAICE //	704200	000	L]	**		
SEND		SERVATION DIV		_			
FINAL REPORT		Office Bldg,	, PO Box 208	8 .	***********		
TO	Santa Fe,	NM 8/501			······		
Attn	n:David_Bo,	yer			· · · · · · · · · · · · · · · · · · ·		
					Station/		
				·	vell code Owner		
SAMPLING CO	SNOITIONS				J. 111161		
☐ Bailed & Dipped	□ Pump □ Tap	Water level		Discharge		Sample type	
pH (00400)	8. /	Conductivity (Unco	1	Water Temp. (00010)	47°°C	Conductivity at 2	5°C (00094) μmho
Field comments							_
	WATER	is circul	ATED TH	irough find f	PES	TO HEA	<i></i>
	GREENHO	ouses					
SAMPLE FIEL	D TREATMEN	T — Check prope	r boxes				
No. of samples submitted	/ I N	Whole sample (Non-filtered)	F: Filtered in 0.45 µmer	field with \square A: 2 mmbrane filter	ni H₂SO₄/L	. added	
Ø NA: No ad	cid added 🗆 (Other-specify:					
	RESULTS from						
NF, NA		<u> </u>	Units Date analyze	d F, NA		Units	Date analyzed
Conductivity				Calcium (00915)	37	7 7	2-10
` 25°C (00095)	<u></u>		ımho	Magnesium (00925)	303.		
☐ Total non-filter	rabie			♀ Sodium (00930)レ Potassium (00935)	19.1		7
residue (susp	ended)			Bicarbonate (00440)	97	7,/ mg/l	7/18
(00530)	-		mg/l	□	9	2.4 mg/l	2/20
Other:				Sulfate (00945)		37 mg/l	2//8
☐ Other:				Total filterable residue (dissolved) (70300)	111	5 mg/l	3/12
				Other: (0300)	00	111471	
NF, A-H₂SO₄				X F	110	7	2/27
☐ Nitrate-N + , N total (00630)	Nitrate-N		mg/l	F, A-H₂ SO₄ ☐ Nitrate-N +, Nitrate-N			
☐ Ammonia-N to	. ,		mg/l	dissolved (00631)		mg/l	
☐ Total Kjeldahl-	-N		ma/l	☐ Ammonia-N dissolved			
() □ Chemical oxy			mg/l	(00608)		mg/l	
demand (003		1	mg/l	☐ Total Kjeldahl-N		mg/l	
☐ Total organic (carbon		mg/l	Other:		mg/l	
☐ Other:				Analyst	Date Re	ported Revie	wed by
☐ Other:				-		4/56 C	len
Laboratory remar	ks				1.717	1 100	
1							
		***************************************					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~





RECEIVED 2	10 06 N	5.WC 361	CODE 59300	59600 🖎 O	THER: 822	235	
Collection DATE / Z8 86		SITE INFORM- ►	Sample location	EALL WEL	۷		
Collection TIME		ATION	Collection site description	31 68			
Collected by - Person/A	gency	00.0		~ 34 MILE	WEST		GETT
BAILEY/JO	40500 -	000	L		FAS	LILITIES	
END NINAL SEPORT SO		SERVATION DI' Office Bldg NM 87501	VISION , PO Box 2088	3			
, , , , ,		,			Station/ well code		
AMPLING CON	NDITIONS				Owner	······································	
	EX Pump □ Tap	Water level		Discharge		Sample type	
pH (00400)	6.7	Conductivity (Unco	orrected) 490 μmho	Water Temp. (00010)	7.5°C	Conductivity at 25	°C (00094) µmho
Field comments		·5 ´					
					~ + = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
No. of samples submitted X NA: No acid	/ 愛NF	(14011-111(6160)	Mrs. Filtered in I	ield with A: 2	ml H₂SO₄/I	L added	
NALYTICAL R	ESULTS from						
NF, NA			Units Date analyzed	I F, NA		Units	Date analyzed
Conductivity (Conductivity (Co	ble	,	umho	☑ Calcium (00915) ☑ Magnesium (00925) ☑ Sodium (00930) ☑ Potassium (00935) ☑ Bicarbonate (00440) ☑ Chloride (00940) ☑ Sulfate (00945)		mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 "" "" "2/18 2/18
Cther:				Total filterable residue (dissolved) (70300)	4	43 mg/l	3/13
NF, A-H₂SO₄				Other: 😂 3	<u>D</u> 2,	.00	2/17
Nitrate-N + , Nitrate-N + , Nitrate-N + , Nitrate-N + , Nitrate (00630) Ammonia-N total Total Kjeldahl-N () Chemical oxyge	al (00610)		mg/l mg/l mg/l	F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N	1	mg/l _	
demand (00340 Total organic cal ()			mg/l	()		mg/l	
Other: Other:				Analyst	Date Re	ported Review	rediby
aboratory remarks							

700 Camino de Salud NE and NITROGEN ANALYSIS Albuquerque, NM 87106 -- (505) 841-2555 NO. 100 563 USER MY OTHER: 82235 59600 RECEIVED 59300 Collection DATE Sample location SITE 1128186 RURGETT FRESH WATER WELL INFORM-Collection TIME **ATION** 1015 Collection site description WSW of GREENHOUSES Collected by — Person/Agency
RALLEY / JOHNSON - OCD ENVIRONMENTAL BUREAU NM OIL CONSERVATION DIVISION SEND State Land Office Bldg, PO Box 2088 FINAL REPORT Santa Fe. NM 87501 TO Attn: David Bover Station/ well code SAMPLING CONDITIONS ☐ Bailed Pd Pump Water level Discharge Sample type 65-70 gpm □ Dipped □ Tap pH (00400) Conductivity (Uncorrected) Water Temp. (00010) Conductivity at 25°C (00094) °C *µ*mho **µmho** Field comments T.D. 175 NOT ENOUGH SAMPLE FOR FIELD TESTS. SAMPLE FIELD TREATMENT — Check proper boxes Filtered in field with No. of samples Whole sample ☑ NF: ☐ A: 2 ml H₂SO₄/L added submitted (Non-filtered) 0.45 umembrane filter X NA: No acid added ☐ Other-specify: ANALYTICAL RESULTS from SAMPLES NF. NA Units Date analyzed F, NA Units Date analyzed 2-10 区 Conductivity (Corrected) Calcium (00915) mg/l 25°C (00095) 4.71 11 μ mho Ż Magnesium (00925) mg/l Ø Sodium (00930) mg/l ☐ Total non-filterable Potassium (00935) mg/l residue (suspended) 144. 魯 Bicarbonate (00440) mg/l (00530)mg/l Chloride (00940) mg/l ☐ Other: Sulfate (00945) mg/l ☐ Other: Total filterable residue 310 ☐ Other: (dissolved) (70300) ma/l Other: Co3 3,43 NF, A-H2SO4 F, A-H2 SO4 ☐ Nitrate-N + , Nitrate-N total (00630) ☐ Nitrate-N +, Nitrate-N ☐ Ammonia-N total (00610) mg/I dissolved (00631) Total Kjeldahl-N ☐ Ammonia-N dissolved mg/l (00608)mg/l □ Chemical oxygen □ Total Kjeldahl-N demand (00340) mg/l mg/l Total organic carbon □ Other: mg/l □ Other: Analyst Date Reported Reviewed by ☐ Other: 3 24 Laboratory remarks

700 Camino de Salud NE and NITROGEN ANALYSIS Albuquerque, NM 87106 — (505) 841-2555 DATE RECEIVED USER CODE OTHER: 82235 59600 59300 Collection DATE Sample location SITE INFORM-VIEW COMMUNITY CHURCH VALLEY 1 28 86 Collection TIME **ATION** 1030 Collection site description Collected by - Person/Agency NZMI WEST OF BURGETT FACILITIES BAILEY / JOHNSON - OCA ENVIRONMENTAL BUREAU NM OIL CONSERVATION DIVISION SEND FINAL REPORT State Land Office Bldg, PO Box 2088 Santa Fe, NM 87501 Attn: __David Bover Station/ well code Owner SAMPLING CONDITIONS □ Pump □ Bailed Water level Discharge Sample type □ Dipped ☑ Tap pH (00400) Conductivity (Uncorrected) Water Temp. (00010) Conductivity at 25°C (00094) 7.4 °C umho 24/ µmho Field comments SAMPLE FIELD TREATMENT — Check proper boxes Filtered in field with No. of samples Whole sample □ A: 2 ml H₂SO₄/L added 国 NF: submitted (Non-filtered) 0.45 µmembrane filter ☑ NA: No acid added ☐ Other-specify: ANALYTICAL RESULTS from SAMPLES Units Date analyzed NF, NA Units Date analyzed F, NA 2-10 Conductivity (Corrected) 62 Calcium (00915) mg/l 25°C (00095) 6.44 μ mho Magnesium (00925) mg/l 5 5. Sodium (00930) mg/i □ Total non-filterable 1,17 82 Potassium (00935) mg/l residue (suspended) 153.7 Bicarbonate (00440) Ø mg/l (00530)mg/l 8.6 120 Chloride (00940) 62 mg/l ☐ Other: Sulfate (00945) ō mg/l ☐ Other: Total filterable residue 258 3/13 ☐ Other: (dissolved) (70300) ma/l 18 Other: 03 0.0 NF, A-H2SO4 F, A-H2 SO4 ☐ Nitrate-N+, Nitrate-N total (00630) mg/l ☐ Nitrate-N +, Nitrate-N ☐ Ammonia-N total (00610) mg/l dissolved (00631) mq/l □ Total Kjeldahl-N ☐ Ammonia-N dissolved mg/l (80900)mg/l Chemical oxygen □ Total Kjeldahl-N demand (00340) mg/l mg/l □ Total organic carbon ☐ Other: mg/l □ Other: Analyst Date Reported Reviewed by □ Other: 24 تی Laboratory remarks

Albuquerque, N	NM 87106 — (505) 841-	2555			ROGEN A		
	LAB NO. WC 565	USER CODE 59300	o □ 59600 💢 X O	_{THER:} 82	235		
Ilection DATE / 28 86 Ilection TIME	SITE INFORM- ► ATION	Sample location Bu	RGETT IRRIG	ATIOA) ωες	. د	
10 40 lected by — Person/Agency		Collection site description	~2m, SW	0+	GREEN	HOUSE	E.5
AILEY /JOHNSON -	000						
CAULTBONNES	UTAL DUDEALL						•
	NTAL BUREAU NSERVATION DI	VISION					*******************************
AL State Land	d Office Bldg	, PO Box 208	8				
Santa Fe,						···	***************************************
Attn: <u>David Bo</u>	over			***************************************		*************	
	*	·		Station/			
				well code			
MPLING CONDITIONS				Owner			
Bailed □ Pump Dipped □ Tap	Water level		Discharge /400	gpm	Sample typ	pe	
7.0	Conductivity (Unco	orrected) 600 μmho	Water Temp. (00010)	19 °C	Conductivi	ity at 25°C	: (00094) <i>µ</i> mh
id comments	^ ′						
1, 41. 25	·						•
MPLE FIELD TREATMEN	IT — Check prope	er boxes					
lo. of samples / 🙀 N	14/111	F. Filtered in	field with A: 2 in the contract of the contrac	ml H₂SO₄/	L added		
							
XNA: No acid added 🛚	Other-specify:						
	m SAMPLES	Units Date analyzed	i F, NA			Units	Date analyzed
ALYTICAL RESULTS from NF, NA Conductivity (Corrected)	m SAMPLES	Units Date analyzed	☑ Calcium (00915)	64.			Date analyzed ੇ-ਟਿ
ALYTICAL RESULTS from	m SAMPLES	Units Date analyzed	☑ Calcium (00915) ☐ Magnesium (00925)	17.5		mg/l	
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095)	m SAMPLES		☑ Calcium (00915) ☐ Magnesium (00925) ☐ Sodium (00930)	!1.5 E	7.8	mg/l mg/l)- <i>10</i>
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended)	m SAMPLES	umho	☑ Calcium (00915) ☐ Magnesium (00925)		7.8 86 4	mg/l mg/l	2/18
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530)	m SAMPLES		Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940)	17.5 8 10 14	7.8 86 4 53.6	mg/l mg/l mg/l mg/l mg/l	2/18 2/20
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other:	m SAMPLES	umho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940)	17.5 E. 14	7.8 66 4 53.6 53.6	mg/l mg/l mg/l mg/l	2/18 2/18 2/18
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other:	m SAMPLES	umho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940)	17.5 - 8. - 1.3 - 1.4 - 4	2.8 86 4 53.6 53	mg/l mg/l mg/l mg/l mg/l	2/18 2/20 2/18 3/13,
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other:	m SAMPLES	umho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945)	17.5 8. 1.3 14 4	2.3 66 4 53.6 53 40	mg/l mg/l mg/l mg/l mg/l mg/l	2/18 2/20 2/20 2/18 3/13, 2/18
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other:	m SAMPLES	umho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	17.5 8. 1.3 14 4	2.8 86 4 53.6 53	mg/l mg/l mg/l mg/l mg/l mg/l	2/18 2/20 2/18 3/13,
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other:	m SAMPLES	umho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: COS	17.5 8. 1.3 14 	2.3 66 4 53.6 53 40	mg/l mg/l mg/l mg/l mg/l mg/l	2/18 2/20 2/20 2/18 3/13, 2/18
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)	m SAMPLES	mg/i	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	17.5 8. 1.3 14 	2.3 66 4 53.6 53 40	mg/l mg/l mg/l mg/l mg/l mg/l	2/18 2/20 2/18 3/18 3/13, 2/18
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)	m SAMPLES	mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄ Nitrate-N + Nitrate-N dissolved (00631) Ammonia-N dissolved	17.5 E. 14 14 4	2.3 4 53.6 53.6 53 6 0.99	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2/18 2/20 2/20 2/18 3/13, 2/18
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N (m SAMPLES	mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608)	17.5 E. 14 14 4	2.3 4 53.6 53.6 53 6 0.99	mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2/18 2/20 2/18 3/18 3/13, 2/18
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N () Chemical oxygen demand (00340)	m SAMPLES	mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄ Nitrate-N + Nitrate-N dissolved (00631) Ammonia-N dissolved	17.5 E. 14 14 4	2.3 4 56 53.6 53.6 53 6 50 0.99	mg/l	2/18 2/20 2/18 3/18 3/13, 2/18
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N () Chemical oxygen demand (00340)	m SAMPLES	mg/lmg/lmg/lmg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608)	17.5 E. 14 14 4	2.3 4 56 53.6 53.6 53 6 50 0.99	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2/18 2/20 2/18 3/13, 2/18
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N () Chemical oxygen	m SAMPLES	mg/lmg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: COS F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:	17.5 	2.8 4 4 53.6 53.6 53 40 .0	mg/l	2/18 2/20 2/18 3/13, 2/18 2/27
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: Other: , A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N () Chemical oxygen demand (00340) Total organic carbon ()	m SAMPLES	mg/lmg/lmg/lmg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N (17.5 8. 1.4 14 0	2.8 4 4 53.6 53 80 .0 0.99	mg/l	2/18 2/20 2/18 3/13, 2/18 2/37
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N () Chemical oxygen demand (00340) Total organic carbon () Other:	m SAMPLES	mg/lmg/lmg/lmg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: COS F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:	17.5 8. 1.4 14 0	2.8 4 4 53.6 53.6 53 40 .0	mg/l	2/18 2/20 2/18 3/13, 2/18 2/47
ALYTICAL RESULTS from NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N () Chemical oxygen demand (00340) Total organic carbon () Other: Other:	m SAMPLES	mg/lmg/lmg/lmg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: COS F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:	17.5 8. 1.4 14 0	2.8 4 4 53.6 53 80 .0 0.99	mg/l	2/18 2/20 2/18 3/13, 2/18 2/47

BURGETT GEOTHERMAL GREENHOUSES, INC. BOX 265-A

ANIMAS, NM 88020 505/548-2353 505/548-2293 FAX

May 8, 2000

Roger C. Anderson New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division Santa Fe, NM 87505

RE:

Discharge Plan Renewal GW-041

Burgett Geothermal Greenhouses, Inc.

Geothermal Greenhouses Hidalgo County, New Mexico

Dear Mr. Anderson:

Please find enclosed the signed copy of the renewal agreement for the above plan.

Sincerely,

Dale Burgett, President

ATTACHMENT TO THE DISCHARGE PLAN RENEWAL GW-041 BURGETT GEOTHERMAL GREENHOUSES, INC. GEOTHERMAL GREENHOUSES DISCHARGE PLAN APPROVAL CONDITIONS May 3, 2000

- 1. Payment of Discharge Plan Fees: The \$50.00 filing fee has been received by the OCD. There is a required flat fee equal to one-half of the original flat fee for geothermal wells. The renewal flat fee required for this facility is \$\$690.00 which may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due upon receipt of this approval. The filing fee is payable at the time of application and is due upon receipt of this approval.
- 2. <u>Commitments:</u> Burgett Geothermal Greenhouses, Inc. will abide by all commitments submitted in the discharge plan renewal application letter dated December 28, 1999 and these conditions for approval.
- 3. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.
- 4. <u>Drum Storage</u>: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
- 5. <u>Process Areas:</u> All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
- 6. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.

- 7. <u>Above Ground Saddle Tanks:</u> Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
- 8. <u>Labeling:</u> All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.
- 9. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity no later than N/A and every year from tested date thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.
- 10. <u>Underground Process/Wastewater Lines</u>: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity no later than N/A and every five (5) years thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.
- 11. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
- 12. <u>Housekeeping:</u> All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.
- 13. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Santa Fe District Office.

- 14. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
- 15. Storm Water Plan: N/A
- 16. Closure: The OCD will be notified when operations of the Geothermal Greenhouses are discontinued for a period in excess of six months. Prior to closure of the Geothermal Greenhouses, the Director will submit a closure plan for approval. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.
- 17. Conditions accepted by: Burgett Geothermal Greenhouses, Inc., by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Burgett Geothermal Greenhouses, Inc. further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Burgett Geothermal Greenhouses, Inc.

Print Name: EVERETT DALE BURGETT
Signature: Everal Dale Bury H
Title: President
Date: 5/8/00

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

May 3, 2000

CERTIFIED MAIL
RETURN RECEIPT NO. 5051-6021

Dale Burgett
Burgett Geothermal Greenhouses, Inc.
Box 265 A
Animas, New Mexico 88020

RE: Discharge Plan Renewal GW-041
Burgett Geothermal Greenhouses, Inc.
Geothermal Greenhouses
Hidalgo County, New Mexico

Dear Mr. Burgett



The ground water discharge plan renewal application GW-041 for the Burgett Geothermal Greenhouses, Inc. Geothermal Greenhouses located in Section 7, Township 25 South, Range 19 West, NMPM, Hidalgo County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe office within 10 working days of receipt of this letter.

The original discharge plan application was submitted on April 16, 1986 and approved November 16, 1986. The discharge plan renewal application letter, dated December 28, 1999, submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals. The discharge plan is renewed pursuant to Section 3109.C. Please note Section 3109.G, which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve Burgett Geothermal Greenhouses, Inc. of liability should operations result in pollution of surface water, ground water or the environment.

Please be advised that all exposed pits, including lined pits and open tanks (exceeding 16 feet in diameter) shall be screened, netted or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that Section 3104 of the regulations provides: "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C, Burgett Geothermal Greenhouses, Inc. is required to notify the Director of any facility expansion, production increase or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3109.H.4, this renewal plan is for a period of five years. This renewal will expire on November 16, 2003, and Burgett Geothermal Greenhouses, Inc. should submit an application in ample time before this date. Note that under Section 3106.F of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit the results of an underground drainage testing program as a requirement for discharge plan.

The discharge plan renewal application for the Burgett Geothermal Greenhouses, Inc. Geothermal Greenhouses is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan application will be assessed a fee equal to the filing fee of \$50.00. There is a renewal flat fee assessed for geothermal wells equal to one-half of the original flat fee or \$690.00. The OCD has received the filing fee.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

Roger C. Anderson

Chief, Environmental Bureau Oil Conservation Division

RCA/eem Attachment

Xc: OCD Santa Fe Office

ATTACHMENT TO THE DISCHARGE PLAN RENEWAL GW-041 BURGETT GEOTHERMAL GREENHOUSES, INC. GEOTHERMAL GREENHOUSES DISCHARGE PLAN APPROVAL CONDITIONS May 3, 2000

- 1. Payment of Discharge Plan Fees: The \$50.00 filing fee has been received by the OCD. There is a required flat fee equal to one-half of the original flat fee for geothermal wells. The renewal flat fee required for this facility is \$\$690.00 which may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due upon receipt of this approval. The filing fee is payable at the time of application and is due upon receipt of this approval.
- 2. <u>Commitments:</u> Burgett Geothermal Greenhouses, Inc. will abide by all commitments submitted in the discharge plan renewal application letter dated December 28, 1999 and these conditions for approval.
- 3. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.
- 4. <u>Drum Storage</u>: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
- 5. <u>Process Areas:</u> All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
- 6. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.

- 7. <u>Above Ground Saddle Tanks:</u> Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
- 8. <u>Labeling:</u> All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.
- 9. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity no later than N/A and every year from tested date thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.
- 10. <u>Underground Process/Wastewater Lines:</u> All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity no later than N/A and every five (5) years thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.
- 11. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
- 12. <u>Housekeeping:</u> All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.
- 13. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Santa Fe District Office.

- 14. <u>Transfer of Discharge Plan:</u> The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
- 15. Storm Water Plan: N/A
- 16. Closure: The OCD will be notified when operations of the Geothermal Greenhouses are discontinued for a period in excess of six months. Prior to closure of the Geothermal Greenhouses, the Director will submit a closure plan for approval. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.
- 17. Conditions accepted by: Burgett Geothermal Greenhouses, Inc., by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Burgett Geothermal Greenhouses, Inc. further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Burgett Geothermal Greenhouses, Inc.

Print Name:	 	 	
Signature: _	 		
Title:		 	
Date:			

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. 1312 dated 12/28/99,

	or cash received on in the amount of	e \$ <u>140</u>
	from BURGELT GEOTHERMAL GREEN HOUSES, INC.	
	for BURGETE GREENHOUSES	GW-41.
	Submitted by: 20AyNE PRICE . Date:	1-5-200
		1-5-2000
	Received in ASD by:Date:	
	Filing Fee New Facility Renewal 2	
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SAFETY LL BROWN LEES	BURGETT GEOTHERMAL GREENHOUSES, INC. P. O. BOX 1618 ROSWELL, NM 88201 PAY TO THE ORDER OF MED -WATEN QUALITY MANAgement Seven Hundred forty First National Bank of Chaves County 1901 N. Main = P.O. Box 2087 • Rosyell, NM 88202 DISCHARGE HAM RENAVAL **DISCHARGE HAM RENAVAL **DISCHARGE HAM RENAVAL **DISCHARGE HAM RENAVAL	1312

Revised 3/19/97 ent Revenue Transmittal DFA DFA ED ED Fund CES Org. Acct. Org. Acct. Amount Description CY Reimbursement Project _____Tax __ 064 01 2329 900000 2329134 01 Gross Receipt Tax 064 1690 900000 4169134 13 092 ____Air Quality Title V 9690 900000 4969014 14 PRP Prepayments 248 14 9690 900000 4969015 Climax Chemical Co. 248 9690 900000 4969248 14 Circle K Reimbursements 248 1690 900000 4169027 339 27 Hazardous Waste Permits 1690 900000 4169339 Hazardous Waste Annual Generator Fees 339 27 1690 900000 4169028 28 Water Quality - Drinking Water 340 2329 900000 2329029 29 Water Quality - Oil Conservation Division 341 1690 900000 4169029 Water Quality - GW Discharge Permit 29 341 1690 900000 4169031 31 Air Quality Permits 631 2919 900000 2919033 33 Payments under Protest 651 2349 900000 2349001 652 34 Xerox Copies 2349 900000 2349002 34 **Ground Water Penalties** 652 2349 900000 2349003 34 Witness Fees 652 2349 900000 2349004 Air Quality Penalities 652 34 34 2349 900000 2349005 OSHA Penalties 652 2349 900000 2349006 34 Prior Year Reimbursement 652 20 2349 900000 2349009 34 Surface Water Quality Certification 652 2349 900000 2349012 21 34 Jury Duty 652 2349 900000 2349014 34 CY Reimbursements (i.e.: telephone) 652 9690 900000 4969201 24 **UST Owners List** 783 _24 9690 900000 4969202 Hazardous Waste Notifiers List 783 24 _____25 9690 900000 4969203 24 **UST Maps** 783 26 9690 900000 4969205 24 783 **UST Owners Update** 28 9690 900000 4969207 Hazardous Waste Regulations 783 24 9690 900000 4969208 24 Radiologic Tech. Regulations 783 9690 900000 4969211 30 24 783 Superfund CERCLIS List __31 9690 900000 4969213 24 Solid Waste Permits Fees 783 9690 900000 4969214 24 Smoking School 783 9690 900000 4969222 33 783 24 SWQB - NPS Publications 9690 900000 4969228 24 Radiation Licensing Regulations 783 9690 900000 4969301 Sale of Equipment 783 24 36 24 9690 900000 4969302 Sale of Automobile 783 37 9690 900000 4969614 24 **Lust Recoveries** 783 9690 900000 4969615 Lust Prepayments 783 24 39 Surface Water Publication 783 24 9690 900000 4969801 9690 900000 4969242 40 24 Exxon Reese Drive Ruidoso - CAF 783 1640 900000 4164032 32 Emerg. Hazardous Waste Penalties NOV 957 1690 900000 4169005 Radiologic Tech. Certification 987 05 1690 900000 4169020 20 **UST Permit Fees** 989 1690 900000 4169021 20 UST Tank Installers Fees 989 1690 900000 4169026 26 Food Permit Fees 991 43 Other 74100

* Gross Receipt Tax Required	** Site Name & Pro	oject Code Requi	red	TOTAL:
Contact Person: ROGER C.	AMBRSON	Phone #:_ <i>82</i>	?7-7/55 _Date:_	1-5-2000
Received in ASD By:		Date:	RT #:	ST#

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BURGETT GEOTHERMAL GREENHOUSEŞ, INC.

BOX 265-A ANIMAS, NM 88020 505/548-2353 505/548-2293 FAX

JAN - 3 2000

KY PASERVATION DAYSON

December 28, 1999

Wayne Price, Pet. Engr. Spec. New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, NM 87504

Re:

Discharge Plan GW-41 Burgett Greenhouses

Hidalgo County, New Mexico

Dear Mr. Price:

Enclosed please find the renewal form and payment for the above Discharge Plan. It was very nice speaking to you and I will follow up in the next few month regarding the discharge for agriculture purposes we discussed.

Sincerely,

Betty D. Beagles

Corporate Secretary

P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 **District III** - (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410 District IV - (505) 827-7131

LACIV TATEVATO Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Revised 12/1

Submit Origi Plus 1 Cop to Santa 1 Copy to appropri District Of:

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS, REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS (Refer to the OCD Guidelines for assistance in completing the application)

	New Renewal Modification
1.	Type: DISCHARGE PLAN
2.	Operator: BurgeT Ceothermal Greenhouses INC
	Address: Box 265-A, ANIMAS NM 88020
	Contact Person: <u>Dale Burgett</u> Phone: <u>505/548-2353</u>
3.	Location: $E/2$ $=$ $5W/4$ Section $=$ $=$ Township $=$ $=$ $=$ Submit large scale topographic map showing exact location.
4.	Attach the name, telephone number and address of the landowner of the facility site. (0 N File)
5.	Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6.	Attach a description of all materials stored or used at the facility. ONF_i/e
7.	Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included. $0N + le$
8.	Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9.	Attach a description of proposed modifications to existing collection/treatment/disposal systems. (On f_1/c)
10.	Attach a routine inspection and maintenance plan to ensure permit compliance. (on file)
11.	Attach a contingency plan for reporting and clean-up of spills or releases. (on File)
12.	Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13.	Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders. $(ovfi)e$
14.	CERTIFICATION
	I herby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Daye Bunger Title: PRESIDENT
	Signature: Nac Sangle Date: 12/27/99

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. 9234 dated 1/27/93,

or cash received on $12/6/93$ in the	amount of \$ 690.00
from Burgett Geothernal Greenho	
for Burgett Geothermal Greenhouses	GW-41
Graham & Salama A. Larra	Date:
Submitted to ASD by: Kathy Brown	Date: 12/6/93
Received in ASD by:	Date: 12-6-93
Filing Fee New Facility	Renewal X
Modification Other	
Organization Code 521.07 Appli	cable FY 94
To be deposited in the Water Quality Mana	gement Fund.
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BURGETT GEOTHERMAL GREENHOUSES, INC.	9234
HC 65 BOX 265-A 505/548-2353 ANIMAS, NM 88020	95-82/1122
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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

November 16, 1993

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. P-667-241-147</u>

Ms. Betty D. Beagles, Director Burgett Geothemal Greenhouses, Inc. Box 265-A Animas, New Mexico 88020

RE: DISCHARGE PLAN GW-41 Approval BURGETT GEOTHERMAL GREENHOUSES, INC.

HIDALGO COUNTY, NEW MEXICO

Dear Ms. Beagles:

The discharge plan renewal GW-41 for Burgett Geothermal Greenhouses, Inc., located in the E/2, SW/4, Section 7, Township 25 South, Range 19 West, NMPM, Hidalgo County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. The discharge plan consists of the original discharge plan as approved April 16 1987, and the renewal application dated October 1, 1993.

The discharge plan was submitted pursuant to Section 3-106 of the New Mexico Water Quality Control Commission Regulations (WQCC). It is approved pursuant to Section 3-109.A. Please note Sections 3-109.E and 3-109.F which provide for possible future amendments or modifications of the plan. Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters or the environment which may be actionable under other laws and/or regulations. In addition, the OCD approval does not relieve you of liability for compliance with any other laws and/or regulations.

Please be advised that all exposed pits, including lined pits and open top tanks (tanks exceeding 16 feet in diameter), shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Ms. Betty Beagles November 16, 1993 Page 2

Please note that Section 3-104 of the regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3-107.C you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3-109.G.4, this plan approval is for a period of five (5) years. This approval will expire November 16, 1998, and you should submit an application for renewal in ample time before this date. If the discharge plan is not renewed prior to November 16, 1998, then all discharges will cease.

The discharge plan application for the Burgett Geothermal Greenhouses is subject to the WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of fifty (50) dollars plus one-half of the flat fee of six-hundred and ninety (690) dollars for geothermal wells.

The OCD has received your \$50 filing fee. The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due upon receipt of this approval.

Please make all checks out to: NMED - Water Quality Management and addressed to the OCD Santa Fe Office.

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

for William J. LeeMay

Sincerely,

William J. LeMay

Director

WJL/kmb

Attachment

xc: Roy Johnson, OCD Santa Fe Office

ATTACHMENT TO DISCHARGE PLAN GW-41 APPROVAL BURGETT GEOTHERMAL GREENHOUSES INC. DISCHARGE PLAN REQUIREMENTS

(November 16, 1993)

- 1. <u>Spills</u>: All spills and/or leaks will be reported to the OCD pursuant to WQCC Rule 1-203 and OCD Rule 116.
- 2. <u>Annual Reporting</u>: The volume and quality of the water discharged onto the ground surface will be reported to the OCD annually. Analysis will be for major cations and anions.
- 3. <u>Water Additives</u>: The discharge water will not be treated with any additives or chemicals without prior OCD approval.
- 4. <u>Discharge Control</u>: The water will be discharged and controlled in such a manner that there is no erosion of soils or flooding of the discharge ditch and livestock pond.

CONDITIONS OF APPROVAL

File No.: A-36-AB-S-2

Applicant: Burgett Investment, Inc.

- 1. The total amount of water diverted from all sources combined shall not exceed 530.256 acre-feet per annum measured at the wells.
- The total amount of water diverted from all sources combined shall be measured by totalizing water meters of a type approved by and installed in a manner and at a location acceptable to the State Engineer.
- 3. Records of the amount of water diverted during the preceding calendar month shall be submitted to the State Engineer, District 3 Supervisor, P.O. Box 844, Deming, New Mexico 88031, on or before the 30th day of the following month.

Date of Approval: February 11, 1987

S. E. Reynolds State Engineer

Frank Craig

Water Rights Division

CONDITIONS OF APPROVAL File Nos. A-36-AB-S-7; A-36-AB-S-8 and A-36-AB-S-9

- 1. The total amount of water diverted from all sources combined shall not exceed 79.5 acre-feet per annum measured at the wells.
- 2. The total amount of water diverted from all sources combined shall be measured by totalizing meters of a type approved by and installed in a manner and at locations acceptable to the State Engineer.
- 3. Records of the amount of water diverted during the preceding calendar month shall be submitted to the State Engineer, District III Supervisor, P.O. Box 844, Deming, New Mexico 88031-0844, on or before the 30th day of the following month.

Name of the state of the state

CONDITIONS OF APPROVAL File Nos. A-36-AB-S-7; A-36-AB-S-8 and A-36-AB-S-9

- 1. The total amount of water diverted from all sources combined shall not exceed 79.5 acre-feet per annum measured at the wells.
- 2. The total amount of water diverted from all sources combined shall be measured by totalizing meters of a type approved by and installed in a manner and at locations acceptable to the State Engineer.
- 3. Records of the amount of water diverted during the preceding calendar month shall be submitted to the State Engineer, District III Supervisor, P.O. Box 844, Deming, New Mexico 88031-0844, on or before the 30th day of the following month.

STATE ENGINEER
DEMING, NA

NARRATIVE STATEMENT OF UTILIZATION

The enclosed drawings show the plan of operation of the Burgett Greenhouses utilizing seven completed greenhouses and two under construction with completion anticipated in November 1993.

The wells are indicated on the drawing, showing the geothermal and fresh water wells. There are five exploratory wells drilled by Mr. Burgett testing for geothermal wells. These are shown on the drawing as A, B, C, D, and E.

Wells B and C are used to heat six trailers during the winter that are used for living quarters for the operation employees who live on site. This water is continuously pumped from the two wells in to piping around the trailers and returned to the wells for the discharge. This makes it a continuous operation.

The residence of Mr. & Mrs. Burgett has an enclosed pool and it is hooked up to the geothermal system, but it is not used for heating of the house or the pool area at this time.

The residence of Mr. & Mrs. Malone does not use geothermal heating in their double wide mobile home.

There are only five geothermal wells being used in the operation of the greenhouses. They are as follows:

Well #2 heats Greenhouse #1,

Well #5 heats Greenhouse #2 and they discharge at the southwest corner of greenhouse #2 with the metering system and discharges to the west to the approximate NS1/4 line of Section 7 and flows north and is used as drinking water for livestock.

Wells #8 and #10 heats Greenhouses #3, #4, and #5.

Well #27 heats Greenhouses #6, #7, #8, and #9. These three wells discharge to the south into a 12" discharge line that is metered at the SW corner of Greenhouse #3, and then flows westerly into a open ditch at the approximate NW1/4 line of section 7 and flows north and is used for drinking water for livestock.

While some of these wells may be used as down hold heat exchangers, most of these wells are observation determining formation and hot water production.